

FAITGOM Selection Guide

|                                               | Density<br>(g/cm²) | Thermal Properties    |                    | Shore<br>Hardness<br>(A) | Tensile<br>Stenght<br>(Mpa) | Elongation<br>at Break<br>(%)  | Modulus<br>At 100%<br>(MPa) | Modulus<br>At 300%<br>(MPa) | Tear<br>Propagation<br>(N/mm) | Carrier   | Aspect                     | Properties & Applications                                                                                                                                  |
|-----------------------------------------------|--------------------|-----------------------|--------------------|--------------------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------|-------------------------------|-----------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                                      | DIN<br>53479/54    | UNI EN ISO<br>11357-1 | Internal<br>method | DIN 53505                | ISO<br>527-3/2/200          | ISO<br>527-3/2/200<br>for 50µm | ISO<br>527-3/2/200          | ISO<br>527-3/2/200          | DIN<br>53515/90               |           |                            |                                                                                                                                                            |
|                                               |                    | DSC                   | Kofler             |                          | MD-TD                       | MD-TD                          | MD-TD                       | MD-TD                       | MD-TD                         |           |                            |                                                                                                                                                            |
|                                               |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| Faitgom G<br>Ester Films                      |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| G 1                                           | 1,22               | 145-155               | 145-155            | 93                       | 60-60                       | 600-600                        | 10-10                       | 26-26                       | 85-85                         | Yes or No | Transparent, matt slightly | Good average of mechanical properties - Very good compatibility with foams and injection foams - Water and oil barrier                                     |
| G 1122                                        | 1,22               | 150-160               | 150-160            | 94                       | 80-80                       | 630-630                        | 10-10                       | 32-32                       | 85-85                         | Yes       | Transparent kristal        | Extremely strong mechanical properties - HHFR - HF Weldable                                                                                                |
| G 2                                           | 1,21               | 170-180               | 165-175            | 89                       | 50-50                       | 800-770                        | 7-7                         | 15-15                       | 80-80                         | Yes       | Transparent, matt slightly | Good average of mechanical properties - Compatibility with some foams and injection foams - Water and oil barrier - Higher melting point - Medium softness |
| G 184                                         | 1,19               | 120-130               | 120-130            | 78                       | 60-60                       | 800-800                        | 4-4                         | 9-9                         | 45-45                         | Yes or No | Transparent, matt slightly | Elastic grade - Good softness                                                                                                                              |
| G 777                                         | 1,25               | n.a.                  | 175-190            | 90                       | 50-50                       | 650-650                        | 8-8                         | 16-16                       | 90-90                         | Yes or No | Transparent, matt slightly | Higher melting point - Good average of mechanical properties - Compatibility with some foams and injection foams - Water and oil barrier                   |
| G 885                                         | 1,20               | n.a.                  | 200-210            | 56D                      | 80-80                       | 400-400 <sup>(1)</sup>         | 19-19                       | 50-50                       | 140-140                       | Yes or No | Transparent                | Hard grade - Higher modulus - Strong mechanical properties - Transparent - Very high melting point                                                         |
| G 1645                                        | 1,15               | 165-175               | 165-175            | 88                       | 50-50                       | 670-570                        | 12-8                        | 25-20                       | 75-65                         | No        | Slightly milky             | Good average of mechanical properties - Good compatibility with foams and injection foams - Water and oil barrier                                          |
| G 295 FR                                      | 1,40               | 150-160               | 150-160            | 93                       | 55-50                       | 550-500                        | 9-9                         | 26-26                       | 82-82                         | Yes or No | Slightly milky             | Flame retardant - Good compatibility with foams and injection foams - Water and oil barrier                                                                |
| G 1053                                        | 1,19               | 145-155               | 150-160            | 61                       | 65-65                       | 950-950                        | 3-3                         | 5-5                         | 40-40                         | Yes       | Transparent                | Extremely soft tpu - Very good elasticity - Plasticizer free                                                                                               |
|                                               |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            | Note: <sup>(1)</sup> Elongation at break achieved by a thickness of 100µm                                                                                  |
|                                               |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| Faitgom E<br>Ether Films                      |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| E 1                                           | 1,12               | 150-160               | 145-155            | 80                       | 37-37                       | 820-820                        | 5-5                         | 7-7                         | 55-55                         | Yes       | Transparent, matt slightly | Soft - Good mechanical properties - Better adhesion properties                                                                                             |
| E 4                                           | 1,13               | 155-165               | 155-165            | 85                       | 40-40                       | 730-730                        | 6-6                         | 10-10                       | 55-55                         | Yes       | Transparent                | Medium softness - Uv resistance - Good mechanical properties - Higher grip good transparence                                                               |
| E 152                                         | 1,19               | 170-180               | 170-180            | 92                       | 45-40                       | 660-630                        | 9-9                         | 16-16                       | 82-82                         | Yes or No | Transparent, matt slightly | Harder grade - Higher melting point                                                                                                                        |
| E 1792                                        | 1,20               | 180-195               | 175-185            | 90                       | 50-50                       | 700-700                        | 7-7                         | 14-14                       | 50-50                         | Yes or No | Transparent matt           | Electrostatic dissipative                                                                                                                                  |
| E 1432                                        | 1,12               | 165-175               | 165-175            | 85                       | 70-70                       | 850-850 <sup>(1)</sup>         | 7-7                         | 13-13                       | 55-55                         | Yes       | Transparent                | Additives free - Medium softness - Good mechanical properties - Better adhesion properties - Higher grip                                                   |
| E 1170                                        | 1,20               | 155-160               | 165-175            | 86                       | 65-65                       | 630-630 <sup>(2)</sup>         | 8-8                         | 17-17                       | 65-65                         | Yes       | Transparent, matt slightly | Medium softness - Uv resistance - Good mechanical properties                                                                                               |
|                                               |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            | Note: <sup>(1)</sup> Elongation at break achieved by a thickness of 100µm <sup>(2)</sup> Elongation at break achieved by a thickness of 25µm               |
|                                               |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| Faitgom A<br>Aliphatic Films                  |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| A 2                                           | 1,14               | n.a.                  | 120-130            | 92                       | 70-70                       | 550-550                        | 10-10                       | 32-32                       | 75-75                         | Yes       | Transparent kristal        | Very high uv resistance - Good mechanical properties - Stone impact resistance                                                                             |
| A 1752                                        | 1,14               | n.a.                  | 100-110            | 90                       | -                           | -                              | -                           | -                           | -                             | Yes       | Transparent kristal        | Low melting point - Good uv resistance - Good adhesion properties                                                                                          |
|                                               |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| Faitgom TM<br>Bilayer Films                   |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |
| TM - b                                        | 1,21               | 145-155               | 145-155            | 93                       | 45-45                       | 520-520                        | 8-8                         | 20-20                       | 73-73                         | Yes       | Transparent, matt slightly | Good average of mechanical properties - Very good compatibility with foams and injection foams - Water and oil barrier                                     |
|                                               | - t                | n.a.                  | 80-95              | -                        | 45-45                       | 520-520                        | 8-8                         | 20-20                       | 73-73                         | Yes       | Transparent, matt slightly |                                                                                                                                                            |
| TM 1694                                       | - b                | 1,11                  | 165-170            | 84                       | 35-30                       | 550-500                        | 11-8                        | 20-16                       | 70-50                         | No        | -                          | Good average of mechanical properties - Good adhesion to foams and/or others materials - Water and oil barrier                                             |
|                                               | - t                | 1,11                  | 95-105             | -                        | 35-30                       | 550-500                        | 11-8                        | 20-16                       | 70-50                         | No        | -                          |                                                                                                                                                            |
| TM U6                                         | - b                | 1,17                  | 155-165            | 85                       | 45-45                       | 800-800                        | 5-5                         | 9-9                         | 65-65                         | Yes       | Transparent, matt slightly | Ether barrier layer with better hydrolysis resistant and uv resistance                                                                                     |
|                                               | - t                | 1,17                  | 110-130            | -                        | 45-45                       | 800-800                        | 5-5                         | 9-9                         | 65-65                         | Yes       | Transparent, matt slightly |                                                                                                                                                            |
| TM 534                                        | - b                | 1,33                  | 170-180            | 90                       | 43-43                       | 620-620                        | 7-7                         | 14-14                       | 78-78                         | Yes       | Black                      | Total black out - Fr                                                                                                                                       |
|                                               | - t                | 1,33                  | 130-140            | -                        | 43-43                       | 620-620                        | 7-7                         | 14-14                       | 78-78                         | Yes       | Black                      |                                                                                                                                                            |
| TM 554                                        | - b                | 1,39                  | 170-180            | 90                       | 40-40                       | 650-650                        | 7-7                         | 13-13                       | 73-73                         | Yes       | Black and white            | Black out with white adhesive layer - Fr                                                                                                                   |
|                                               | - t                | 1,39                  | 130-140            | -                        | 40-40                       | 650-650 <sup>(1)</sup>         | 7-7                         | 13-13                       | 73-73                         | Yes       | Black and white            |                                                                                                                                                            |
| Legenda:<br>b = Barrier<br>t = Termoadhesive. |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            | Note: <sup>(1)</sup> Elongation at break achieved by a thickness of 80µm                                                                                   |
| Release date: 15/04/16                        |                    |                       |                    |                          |                             |                                |                             |                             |                               |           |                            |                                                                                                                                                            |



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