

Technical Data Sheet

Softflex 2701 1803 BLACK BLEND



Thermoplastic Elastomer

Product Description

Softflex 2701 1803 BLACK BLEND is a Thermoplastic Elastomer material.

Regulatory Status

For regulatory compliance information, see *Softflex 2701 1803 BLACK BLEND* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status Commercial: Active

Availability North America

Application Overmolding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (235 °C/1.0 kg, Procedure A)	5.0	g/10 min	5.0	g/10 min	ASTM D1238
Density - Specific Gravity	0.992	g/cm ³	0.992	g/cm ³	ASTM D792
Mechanical					
Tensile Stress at 100%			1.99	MPa	ASTM D412
Tensile Stress at 300%			3.36	MPa	ASTM D412
Tensile Stress at 50%			1.5	MPa	ASTM D412
Tensile Set, (100%)	4	%	4	%	ASTM D412
Tensile Strength at Yield, (510 mm/min)			11.3	MPa	ASTM D412
Tensile Elongation at Break	870	%	870	%	ASTM D412
Tear Strength			52.2	kN/m	ASTM D624
Impact					
Gardner Impact, (-30 °C)			27.0	J	ASTM D5420
Hardness					
Durometer Hardness					
(Shore A)	48		48		ASTM D2240
(Shore A, 10 sec)	45 to 55		45 to 55		ASTM D2240
Additional Information					
Compression Set					
(100 °C, 22 hr, Method B)	89	%	89	%	ASTM D395
(23 °C, 22 hr, Method B)	22	%	22	%	ASTM D395
(70 °C, 22 hr, Method B)	73	%	73	%	ASTM D395
Peel Strength 90°	20.4	lbf/in			ASTM D429
Taber Abrasion Resistance, (H-22 Wheel, 1000 g, 1000 Cycles)			58.9	mg	ASTM D3389



Injection Parameters	Nominal Value	English Units	Nominal Value	SI Units
Drying Time	4.0 to 6.0	hr	4.0 to 6.0	hr
Drying Temperature			54 to 66	°C
Nozzle Temperature			199 to 216	°C
Screw Speed	20 to 40	rpm	20 to 40	rpm
Processing (Melt) Temp			193 to 210	°C
Front Temperature			210 to 221	°C
Holding Pressure			1.38 to 5.52	MPa
Middle Temperature			171 to 193	°C
Rear Temperature			160 to 182	°C
Back Pressure			0.517 to 1.03	MPa
Mold Temperature			27 to 49	°C
Injection Pressure			3.45 to 4.14	MPa

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.