

Technical Data Sheet

**Softflex 0809**

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.925	0.923 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (235°C/1.0 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Taber Abrasion Resistance 1000 Cycles, 1000 g, H-22 Wheel	1.18 mg	1.18 mg	ASTM D3389
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set (100% Strain)	5 %	5 %	ASTM D412
Tensile Stress			ASTM D412
50% Strain	87.0 psi	0.600 MPa	
100% Strain	127 psi	0.876 MPa	
300% Strain	258 psi	1.78 MPa	
Tensile Strength ² (Yield)	659 psi	4.54 MPa	ASTM D412
Tensile Elongation (Break)	610 %	610 %	ASTM D412
Compression Set			ASTM D395B
73°F (23°C), 22 hr	20 %	20 %	
158°F (70°C), 22 hr	76 %	76 %	
212°F (100°C), 22 hr	82 %	82 %	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Impact (-22°F (-30°C))	1210 in-lb	137 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	36	36	
Shore A, 10 sec	31	31	

Notes

¹ Procedure A

² 20 in/min (510 mm/min)

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

© LyondellBasell Industries Holdings, B.V. 2024

Disclaimer

Technical Data Sheet



Softflex 0809

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

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.