

Technical Data Sheet

**Softflex 0350**

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

Product Description

Softflex 0350 is suitable for overmolding polypropylene and polyethylene.

General

Material Status	• Commercial: Active
Availability	• North America
Forms	• Pellets
Processing Method	• Coating • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.910	0.908 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	46 g/10 min	46 g/10 min	ASTM D1238
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	580 psi	4.00 MPa	ASTM D412
Tensile Elongation (Break)	950 %	950 %	ASTM D412
Tear Strength	130 lbf/in	22.8 kN/m	ASTM D624
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Impact (-22°F (-30°C))	320 in·lb	36.2 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	36 to 42	36 to 42	
Shore A, 10 sec	32 to 38	32 to 38	

Technical Data Sheet



Softflex 0350

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	290 to 310 °F	143 to 154 °C
Middle Temperature	315 to 335 °F	157 to 168 °C
Front Temperature	340 to 350 °F	171 to 177 °C
Nozzle Temperature	355 to 365 °F	179 to 185 °C
Mold Temperature	60 to 75 °F	16 to 24 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	90.0 to 175 psi	0.621 to 1.21 MPa
Screw L/D Ratio	20.0:1.0	20.0:1.0
Screw Compression Ratio	1.5:1.0	1.5:1.0

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

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.