

Technical Data Sheet

**Softflex 5000**

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

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	0.877	0.875 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	1.1 g/10 min	1.1 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Flexural Modulus ¹	777 psi	5.36 MPa	ASTM D790
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			ASTM D412
50% Strain	107 psi	0.738 MPa	
100% Strain	138 psi	0.951 MPa	
300% Strain	236 psi	1.63 MPa	
Tensile Strength (Break)	373 psi	2.57 MPa	ASTM D412
Tensile Elongation (Break)	1000 %	1000 %	ASTM D412
Tear Strength	121 lbf/in	21.2 kN/m	ASTM D624
Compression Set (73°F (23°C))	19 %	19 %	ASTM D395
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A)	50	50	ASTM D2240

Notes

¹ 0.50 in/min (13 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/>.

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