

Technical Data Sheet

**Softflex 4500**

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Uses	• Overmolding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	12 g/10 min	12 g/10 min	
235°C/1.0 kg	1.5 g/10 min	1.5 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	600 psi	4.14 MPa	ASTM D638
Tensile Elongation ² (Break)	700 %	700 %	ASTM D638
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength	110 lbf/in	19.3 kN/m	ASTM D624
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A)	40 to 50	40 to 50	ASTM D2240
Additional Information	Nominal Value (English)	Nominal Value (SI)	
Overmold Bonding	PP, PE	PP, PE	

Notes

¹ Procedure A

² 2.0 in/min (51 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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