

Technical Data Sheet

Softflex 5500

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

Product Description

Softflex 5500 is suitable for overmolding polypropylene and polyethylene.

General

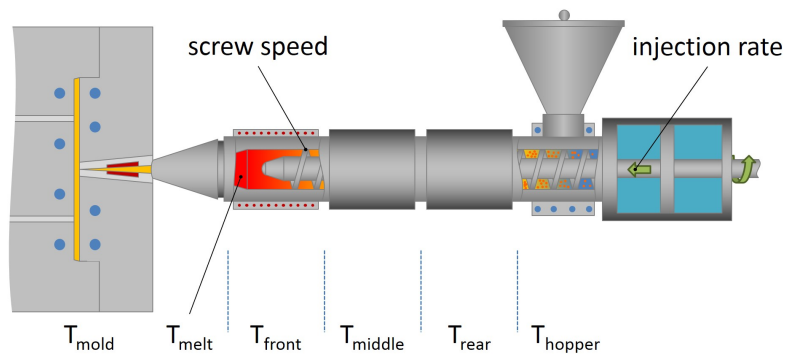
Forms	• Pellets		
Processing Method	• Coating	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.920	0.918 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 Kg)	0.20 g/10 min	0.20 g/10 min	ASTM D1238
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	890 psi	6.14 MPa	ASTM D412
Tensile Elongation (Break)	1000 %	1000 %	ASTM D412
Tear Strength	157 lbf/in	27.5 kN/m	ASTM D624
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A)	55	55	ASTM D2240

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	340 to 360 °F	171 to 182 °C
Middle Temperature	370 to 390 °F	188 to 199 °C
Front Temperature	400 to 420 °F	204 to 216 °C
Nozzle Temperature	395 to 415 °F	202 to 213 °C
Mold Temperature	70 to 110 °F	21 to 43 °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.