Technical Data Sheet

Softflex 5500

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics

Product Description
Softflex 5500 is suitable for overmolding polypropylene and polyethylene.

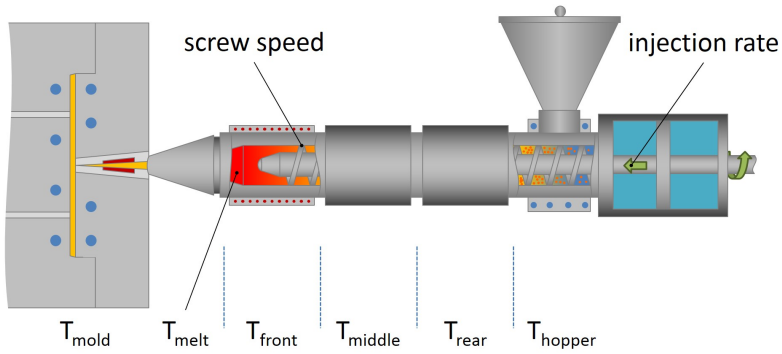
General		
Forms	• Pellets	
Processing Method	• Coating	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.920	0.918 g/cm³	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

Technical Data Sheet

Softflex 5500

Thermoplastic Elastomer
LyondellBasell Industries
Engineering Plastics



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.