

LyondellBasell SEQUELÂ® E5000 TPO

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Polyolefin

Material Notes:

Description: SEQUELÂ® E5000 thermoplastic olefinic elastomer (TPO) is designed for extrusion applications that require high mechanical stiffness, thermal stability, good low-temperature properties, and good dimensional stability over a broad temperature range. This material can be supplied with or without UV stabilizers. Applications: Extrusion and thermoforming Information provided by Solvay Engineered Polymers. LyondellBasell acquired Solvay Engineered Polymers in 2008.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-SEQUEL-E5000-TPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	
Melt Flow	0.97 g/10 min @Load 2.16 kg, Temperature 230 Â°C	0.97 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength, Yield	28.0 MPa	4060 psi	IV, 2 in/min; ASTM D638
Elongation at Break	223 %	223 %	ASTM D638
Flexural Modulus	3.10 GPa	450 ksi	I.B., TAN, 0.5 in/min; ASTM D790
Izod Impact, Notched	8.81 J/cm	16.5 ft-lb/in	NB; ASTM D256
	0.641 J/cm @Temperature -30.0 Â°C	1.20 ft-lb/in @Temperature -22.0 Â°F	CB; ASTM D256
Gardner Impact	>= 22.6 J @Temperature -30.0 Â°C	>= 16.7 ft-lb @Temperature -22.0 Â°F	ASTM D5420-96
	31.6 J @Temperature 23.0 Â°C	23.3 ft-lb @Temperature 73.4 Â°F	ASTM D5420-96

Thermal Properties	Metric	English	Comments
CTE, linear	46.8 Âµm/m-Â°C	26.0 Âµin/in-Â°F	modified; ASTM D696

Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	114 °C	237 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ASTM D648

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