

LyondellBasell DEXFLEX[®] 727 TPO

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

Material Notes:

Description: DEXFLEX[®] 727 is a thermoplastic olefinic elastomer (TPO) designed for automotive exterior applications that require a combination of stiffness, good low-temperature impact resistance, and excellent processability. Applications: Claddings, rocker panels, body side molding, and other large components that must exhibit durable paintability or excellent weatherability. 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-DEXFLEX-727-TPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ISO 1183
Linear Mold Shrinkage	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	as molded; ISO 294
	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	after bake; ISO 294
Melt Flow	14 g/10 min	14 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.0 MPa	2760 psi	150x10x4 mm specimen, 50 mm/min; ISO 527-1/527-2
Flexural Modulus	1.25 GPa	181 ksi	80x10x4 mm specimen, 2 mm/min; ISO 178
Impact Test	20.0 J	14.8 ft-lb	multiaxial, 2.2 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E228
	@Temperature -30.0 - 80.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 176 $\text{Å}^\circ\text{F}$	

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