

LyondellBasell DEXFLEX® 810-1 TPO

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

Material Notes:

Description: DEXFLEX® 810-1 is a thermoplastic olefinic elastomer (TPO) that offers excellent weatherability, paintability and processability. DEXFLEX® 810-1 was designed to exceed the requirements of US 5-mph bumper-impact regulations. Applications: Bumper fascias, and other large components that must exhibit durable paintability in exterior body colors 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-810-1-TPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 g/cc	0.930 g/cc	ISO 1183
Linear Mold Shrinkage	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	as molded; ISO 294
	0.011 - 0.014 cm/cm	0.011 - 0.014 in/in	after bake; ISO 294
Melt Flow	9.0 g/10 min	9.0 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	150x10x4 mm specimen, 50 mm/min; ISO 527-1/527-2
Flexural Modulus	0.790 GPa	115 ksi	80x10x4 mm specimen, 2 mm/min; ISO 178

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM E228
	@Temperature -30.0 - 80.0 $^{\circ}\text{C}$	@Temperature -22.0 - 176 $^{\circ}\text{F}$	

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