

Solvay Engineered Polymers DEXFLEX® E756 TPO (discontinued **)

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

Material Notes:

Description: DEXFLEX® E756 thermoplastic olefinic elastomer (TPO) is designed for extruded automotive air-bag covers. This material provides excellent rigidity, durability and low-temperature toughness. This material is colorable and can be supplied with or without UV stabilizers. Applications: Passenger and roof-mounted air-bag covers that require stiffness and that operate in temperatures ranging from -40°C to 104°C Information provided by Solvay Engineered Polymers. LyondellBasell acquired Solvay Engineered Polymers in 2008. This grade is not part of the current LyondellBasell product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Engineered-Polymers-DEXFLEX-E756-TPO-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ISO 1183
Melt Flow	0.60 g/10 min @Load 2.16 kg, Temperature 230 °C	0.60 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ISO 868
Tensile Strength, Yield	14.0 MPa	2030 psi	ISO 527-1
Flexural Modulus	0.410 GPa	59.5 ksi	ISO 178
Izod Impact, Notched	0.801 J/cm @Temperature -40.0 °C	1.50 ft-lb/in @Temperature -40.0 °F	NB; ISO 180
Impact Test	33.0 J	24.3 ft-lb	multiaxial, ultimate energy, 8.9 m/s; ISO 6603-2
Multi-axial Impact @ -30°C Total Energy	54.9 J	40.5 ft-lb	8.9 m/s; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C @Temperature -30.0 - 80.0 °C	39.4 µin/in-°F @Temperature -22.0 - 176 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	45.0 °C	113 °F	ISO 75.1
Deflection Temperature at 1.8 MPa (264 psi)	37.8 °C	100 °F	ISO 75.1

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