

Noble Polymers Regis™ 235107 Thermoplastic Olefin (TPO)

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

Material Notes:

Regis is a TPO (thermoplastic olefin) produced by Noble Polymers based on olefin/elastomer compounding. We have created Regis for use in bumpers and bumper fascias, air dams, exterior panels, material handling, step pads and other applications requiring rigid TPOs. This recyclable product is a tough, high-strength thermoplastic that maintains its properties over a wide temperature range. Information provided by Noble Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Noble-Polymers-Regis-235107-Thermoplastic-Olefin-TPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.91 MPa	2888 psi	ASTM D638
Elongation at Break	52 %	52 %	ASTM D412
Izod Impact, Notched	1.12 J/cm @Temperature -30.0 °C	2.10 ft-lb/in @Temperature -22.0 °F	ASTM D256
	5.71 J/cm @Temperature 23.0 °C	10.7 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	20.3 J @Temperature 23.0 °C	15.0 ft-lb @Temperature 73.4 °F	ASTM D5420
	21.42 J @Temperature -30.0 °C	15.80 ft-lb @Temperature -22.0 °F	ASTM D5420
Tangent Modulus	1610 MPa	234000 psi	ASTM D790

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	191 - 218 °C	375 - 425 °F	
Ejection Temperature	26.7 - 54.4 °C	80.0 - 130 °F	Water Temperature

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