

PolyOne Elastamax™ EG-9182 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

The Elastamax™ EG 9100 Series is a new family of olefin-based TPE compounds offering outstanding elastomeric performance in a lightweight and easy to process material. The EG 9100 Series of compounds feature unique high melt strength and shear thinning characteristics compared to conventional TPE materials for enhanced processability in extrusion applications. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Elastamax-EG-9182-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.878 g/cc	0.878 g/cc	ASTM D792
Melt Flow	2.7 g/10 min @Load 5.00 kg, Temperature 190 °C	2.7 g/10 min @Load 11.0 lb, Temperature 374 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	10 sec; ASTM D2240
	83	83	ASTM D2240
Tensile Stress	4.76 MPa @Strain 100 %	690 psi @Strain 100 %	510 mm/min; ASTM D412A
	5.24 MPa @Strain 200 %	760 psi @Strain 200 %	510 mm/min; ASTM D412A
	5.65 MPa @Strain 300 %	819 psi @Strain 300 %	510 mm/min; ASTM D412A
Tensile Strength, Yield	6.55 MPa	950 psi	510 mm/min; ASTM D412A
Elongation at Break	510 %	510 %	510 mm/min; ASTM D412A
Tear Strength	45.5 kN/m	260 pli	Die C, 510 mm/min; ASTM D624

Descriptive Properties	Value	Comments
Features	General Purpose	
	Good Melt Strength	
Forms	Pellets	

Generic Material Descriptive Properties	TPE Value	Comments
Generic Name	Thermoplastic Elastomer (TPE)	
Processing Method	Blow Molding	
	Extrusion	
	Foam Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
	Regional Availability	Africa & Middle East
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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