

PolyOne Elastamax™ EG-9177 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-9177-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.878 g/cc	0.878 g/cc	ASTM D792
Melt Flow	3.5 g/10 min	3.5 g/10 min	Procedure A; ASTM D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	10 sec; ASTM D2240
	77	77	ASTM D2240
Tensile Stress	4.21 MPa	611 psi	510 mm/min; ASTM D412A
	@Strain 100 %	@Strain 100 %	
	4.76 MPa	690 psi	
Tensile Strength, Yield	@Strain 200 %	@Strain 200 %	510 mm/min; ASTM D412A
	5.17 MPa	750 psi	510 mm/min; ASTM D412A
	@Strain 300 %	@Strain 300 %	
5.86 MPa	850 psi		
Elongation at Break	520 %	520 %	510 mm/min; ASTM D412A
Tear Strength	38.5 kN/m	220 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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