

PolyOne Elastamax™ HTE 3050 Polyvinyl Chloride + NBR (PVC+NBR)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Elastamax™ HTE Series thermoplastic elastomers (TPEs) are based upon compounded blends of PVC resins and nitrile rubber. These elastomeric materials provide outstanding resistance to hydrocarbons and oils, offer excellent weatherability, and are an economical alternative to thermoset rubber and other more costly thermoplastic elastomers. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Elastamax-HTE-3050-Polyvinyl-Chloride-NBR-PVCNBR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Melt Flow	42 g/10 min	42 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	52	52	15 sec; ASTM D2240
Tensile Strength at Break	11.9 MPa	1730 psi	Type IV, 510 mm/min; ASTM D638
Tensile Strength	2.91 MPa	422 psi	Type IV, 510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
	7.34 MPa	1060 psi	Type IV, 510 mm/min; ASTM D638
	@Strain 300 %	@Strain 300 %	
Elongation at Break	470 %	470 %	Type IV, 510 mm/min; ASTM D638
Tear Strength	24.7 kN/m	141 pli	Die C, 510 mm/min; ASTM D624
Compression Set	49 %	49 %	ASTM D395A
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	58 %	58 %	ASTM D395A
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-55.0 °C	-67.0 °F	ASTM D746

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Features	General Purpose	
Forms	Pellets	
Generic Material	PVC+NBR	
Generic Name	Polyvinyl Chloride + NBR (PVC+NBR)	
Processing Method	Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	General Purpose	
	Industrial Applications	

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