Elastamax™ HTE 3060

Polyvinyl Chloride + NBR

Key Characteristics

Product Description			
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.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose		
Uses	• Automotive Applications • Construction Applications	• General Purpose • Industrial Applications	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.21	1.21	ASTM D792
Melt Mass-Flow Rate (MFR) [2] (190°C/5.0 kg)	26 g/10 min	26 g/10 min	ASTM D1238
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [3]			ASTM D638
100% Strain	542 psi	3.74 MPa	
300% Strain	1280 psi	8.85 MPa	
Tensile Strength [3] (Break)	2030 psi	14.0 MPa	ASTM D638
Tensile Elongation [3] (Break)	460 %	460 %	ASTM D638
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tear Strength [4]	172 lbf/in	30.1 kN/m	ASTM D624
Compression Set			ASTM D395A
158°F (70°C), 22 hr	49 %	49 %	
212°F (100°C), 22 hr	58 %	58 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	59	59	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Brittleness Temperature	-74.2 °F	-59.0 °C	ASTM D746

Notes

[1] Typical values are not to be construed as specifications.

[2] Procedure A

[3] Type IV, 20 in/min (510 mm/min)

[4] Die C, 20 in/min (510 mm/min)

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