



Elastamax™ HTE 3170

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	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• General Purpose		
Uses	• Automotive Applications	• General Purpose	
	• Construction Applications	• Industrial Applications	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.23	1.23	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/5.0 kg)	5.5 g/10 min	5.5 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³			ASTM D638
100% Strain	851 psi	5.87 MPa	
300% Strain	1830 psi	12.6 MPa	
Tensile Strength ³ (Break)	2460 psi	16.9 MPa	ASTM D638
Tensile Elongation ³ (Break)	400 %	400 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ⁴	239 lbf/in	41.9 kN/m	ASTM D624
Compression Set			ASTM D395A
158°F (70°C), 22 hr	53 %	53 %	
212°F (100°C), 22 hr	58 %	58 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	68	68	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-68.8 °F	-56.0 °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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