

Elastamax™ HTE 3170

Polyvinyl Chloride + NBR

PolyOne Corporation

Message:

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 Information			
Features	General Purpose		
Uses	Automotive Applications		
	Construction Applications		
	General Purpose		
	Industrial Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (190°C/5.0 kg)	5.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Break	16.9	MPa	
100% Strain	5.87	MPa	
300% Strain	12.6	MPa	
Tensile Elongation ³ (Break)	400	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	41.9	kN/m	ASTM D624
Compression Set			ASTM D395A
70°C, 22 hr	53	%	
100°C, 22 hr	58	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-56.0	°C	ASTM D746
NOTE			
1.	Procedure A		

2.	Type IV, 510 mm/min
3.	Type IV, 510 mm/min
4.	Die C, 510 mm/min

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