

Teknor Apex Flexalloy® 9100-55 Polyvinyl Chloride Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Vinyl (PVC)

Material Notes:

Material Status-Commercial: ActiveAvailability-North AmericaTest Standards Available-ASTM Features: Good Flexibility, General Purpose, Ultra High MW, Recyclable, Good Thermal Stability, Good Weather ResistanceUses- Automotive ApplicationsFootwear, Tubing, Gaskets, Weatherstripping, hose, Wheels, SealsForms-PelletsProcessing-Extrusion, Injection MoldingInformation provided by Teknor Apex Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Flexalloy-9100-55-Polyvinyl-Chloride-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	23°C; ASTM D792
Linear Mold Shrinkage	0.010 - 0.025 cm/cm	0.010 - 0.025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	15 seconds; ASTM D2240
Tensile Strength, Yield	3.79 MPa	550 psi	100%; ASTM D412
	11.7 MPa	1700 psi	ASTM D412
Elongation at Break	380 %	380 %	ASTM D412
Tear Strength	28.0 kN/m	160 pli	Die C; ASTM D624
Compression Set	23 %	23 %	73°F, 22 hr.; ASTM D395
	55 %	55 %	158°F, 22 hr.; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-56.1 °C	-69.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 188 °C	340 - 370 °F	
Middle Barrel Temperature	171 - 188 °C	340 - 370 °F	
Front Barrel Temperature	171 - 188 °C	340 - 370 °F	
Mold Temperature	23.9 - 51.7 °C	75.0 - 125 °F	
Back Pressure	0.345 - 1.03 MPa	50.0 - 150 psi	

Descriptive Properties	Value	Comments
Screw Compression Ratio	2:1-3:1	
Screw L/D Ratio	20:1- 24:1	
Suggested Max Regrind, %	20	

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