

Teknor Apex Flexalloy® 9300-60 Polyvinyl Chloride Elastomer

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

Material Notes:

Material Status-Commercial: ActiveAvailability-North AmericaTest Standards Available-ASTM Features: Good Flexibility, Oil Resistant, Ultra High MW, Recyclable, Good Thermal Stability, Good Weather ResistanceUses- Automotive Applications, TubingForms- PelletsProcessing-Extrusion, Injection MoldingInformation provided by Teknor Apex Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Flexalloy-9300-60-Polyvinyl-Chloride-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 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	60	60	15 seconds; ASTM D2240
Tensile Strength, Yield	4.69 MPa	680 psi	100%; ASTM D412
	14.8 MPa	2150 psi	ASTM D412
Elongation at Break	340 %	340 %	ASTM D412
Compression Set	32 %	32 %	73°F; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-43.0 °C	-45.4 °F	ASTM D746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 - 193 °C	350 - 380 °F	
Middle Barrel Temperature	177 - 193 °C	350 - 380 °F	
Front Barrel Temperature	177 - 193 °C	350 - 380 °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	

Descriptive Properties	Value	Comments
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