

## Teknor Apex Flexalloy® 9100-45 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- Footwear, 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-9100-45-Polyvinyl-Chloride-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Flexalloy-9100-45-Polyvinyl-Chloride-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 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	45	45	15 seconds; ASTM D2240
Tensile Strength, Yield	2.55 MPa	370 psi	100%; ASTM D412
	8.62 MPa	1250 psi	ASTM D412
Elongation at Break	390 %	390 %	ASTM D412
Tear Strength	22.8 kN/m	130 pli	Die C; ASTM D624
Compression Set	23 %	23 %	73°F, 22 hr.; ASTM D395
	57 %	57 %	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	160 - 177 °C	320 - 350 °F	
Middle Barrel Temperature	160 - 177 °C	320 - 350 °F	
Front Barrel Temperature	160 - 177 °C	320 - 350 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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