

## Teknor Apex Flexalloy<sup>®</sup> 3500-75NT Polyvinyl Chloride Elastomer

Category : Polymer , Thermoplastic , Vinyl (PVC)

### Material Notes:

Features: Good Thermal Stability; Recyclable Material; Good Weather Resistance; Ultra High Molecular Weight Uses: Medical/Healthcare Applications; Pump Parts; Tubing Agency Ratings: FDA Unspecified Rating Forms: Pellets Processing Method: Extrusion; Injection Molding Information Provided by Teknor Apex

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Teknor-Apex-Flexalloy-3500-75NT-Polyvinyl-Chloride-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Flexalloy-3500-75NT-Polyvinyl-Chloride-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	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	75	75	15 seconds; ASTM D2240
Tensile Strength at Break	16.7 MPa	2420 psi	ASTM D638
Tensile Stress	8.41 MPa @Strain 100 %	1220 psi @Strain 100 %	ASTM D638
Elongation at Break	370 %	370 %	ASTM D638
Tear Strength	46.5 kN/m	265 pli	Die C; ASTM D624
Compression Set	20 % @Temperature 22.8 Â°C, Time 79200 sec	20 % @Temperature 73.0 Â°F, Time 22.0 hour	ASTM D395
	56 % @Temperature 70.0 Â°C, Time 79200 sec	56 % @Temperature 158 Â°F, Time 22.0 hour	ASTM D395
	60 % @Temperature 100 Â°C, Time 79200 sec	60 % @Temperature 212 Â°F, Time 22.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-40.0 Â°C	-40.0 Â°F	ASTM D746

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Middle Barrel Temperature	182 - 199 Â°C	360 - 390 Â°F	
Front Barrel Temperature	182 - 199 Â°C	360 - 390 Â°F	
Mold Temperature	23.9 - 51.7 Â°C	75.0 - 125 Â°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 Re grind, max	20	

## Contact Songhan Plastic Technology Co.,Ltd.

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