

## Teknor Apex Uniprene® UN-7100-64 Thermoplastic Vulcanizate

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

### Material Notes:

Notes: Injection Rate: Fast Uses: Expansion Joint; Grommets; Tubing; Gaskets; Plugs; Weatherstripping; Glazing; Shock Absorbing Pads  
Forms: Pellets Processing Method: Extrusion; Injection Molding Extrusion Notes: Screw Speed: 30 to 100 rpm Xenon Weatherometer: 2000 hours Xenon per SAE J-1960, Elongation Retention: 78% 2000 hours Xenon per SAE J-1960, Tensile Retention: 84% Information Provided by Teknor Apex

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Teknor-Apex-Uniprene-UN-7100-64-Thermoplastic-Vulcanizate.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Uniprene-UN-7100-64-Thermoplastic-Vulcanizate.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	ISO 1183; ASTM D792
Melt Flow	4.50 g/10 min @Load 2.16 kg, Temperature 230 °C	4.50 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	64	64	5 seconds; ASTM D2240
	69	69	ASTM D2240
Tensile Strength at Break	5.04 MPa	731 psi	ISO 37; ASTM D412
Elongation at Break	290 %	290 %	ISO 37; ASTM D412
Compression Set	23 % @Temperature 22.8 °C, Time 79200 sec	23 % @Temperature 73.0 °F, Time 22.0 hour	ASTM D395
	36 % @Temperature 70.0 °C, Time 79200 sec	36 % @Temperature 158 °F, Time 22.0 hour	ASTM D395

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	173 - 213 °C	344 - 416 °F	
Middle Barrel Temperature	179 - 219 °C	354 - 426 °F	
Front Barrel Temperature	184 - 224 °C	364 - 436 °F	
Nozzle Temperature	190 - 230 °C	374 - 446 °F	
Zone 1	166 - 204 °C	330 - 400 °F	

<b>Zone 2</b> Processing Properties	<b>171 - 210 °C</b> Metric	<b>340 - 410 °F</b> English	Comments
Zone 3	177 - 216 °C	350 - 420 °F	
Zone 5	182 - 221 °C	360 - 430 °F	
Die Temperature	190 - 227 °C	374 - 440 °F	
Melt Temperature	190 - 230 °C	374 - 446 °F	Processing Temperature
Mold Temperature	35.0 - 60.0 °C	95.0 - 140 °F	
Injection Pressure	1.38 - 6.89 MPa	200 - 1000 psi	
Back Pressure	0.172 - 0.862 MPa	25.0 - 125 psi	
Cushion	0.381 - 2.54 cm	0.150 - 1.00 in	
Screw Speed	50 - 120 rpm	50 - 120 rpm	

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
Appearance	Opaque	

## Contact Songhan Plastic Technology Co.,Ltd.

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