

Teknor Apex Uniprene® UN-7100-55 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 Information Provided by

Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Uniprene-UN-7100-55-Thermoplastic-Vulcanizate.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM D792
Melt Flow	7.50 g/10 min	7.50 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	5 seconds; ASTM D2240
	60	60	ASTM D2240
	60	60	Change in hardness after 24 hours at 275°F; ASTM D573
Tensile Strength at Break	3.603 MPa	522.6 psi	Across Flow, Change in tensile strength after 70 hours at 73°F in IRM 903 Oil; ASTM D471
	4.34 MPa	630 psi	Flow; ASTM D412
	4.481 MPa	649.9 psi	In Air, Across Flow, Change in tensile strength after 24 hours at 275°F; ASTM D573
	4.62 MPa	670 psi	Across Flow; ASTM D412
Elongation at Break	217.6 %	217.6 %	Across Flow, after 70 hours at 73°F in IRM 903 Oil; ASTM D471
	270 %	270 %	Flow; ASTM D412
	297.6 %	297.6 %	In Air, Across Flow, after 24 hours at 275°F; ASTM D573
	320 %	320 %	Across Flow; ASTM D412
Tear Strength	15.8 kN/m	90.2 pli	ASTM D624
Compression Set	29 %	29 %	ASTM D395
	@Temperature 100 °C,	@Temperature 212 °F,	

Mechanical Properties	Time 79200 sec Metric	Time 22.0 hour English	Comments
Thermal Properties	Metric	English	Comments
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D746

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	
Zone 2	171 - 210 °C	340 - 410 °F	
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	

Descriptive Properties	Value	Comments
Appearance	Opaque	
Change in Volume (%)	0.23	After 20 hours at 77°F in IRM 903 Oil

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