

Stellarchem SV-B80E TPV Compound

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

Material Notes:

This grade of Stellarchem SV series is a dynamic crosslinked, EPDM/PP compound. It's design to replace thermoset elastomers, such as EPDM, and traditional Thermoplastic TPVs. It can be process on conventional thermoplastics equipment for injection molding or extrusion, provides the performance of vulcanized rubber with the advantage of low cost thermoplastic processing. It's a soft, EPDM/PP based, completely recyclable & colorable elastomer material. It's formulated to overmold to PP thermoplastics in normal dual injection & extrusion processing. Information provided by Stellarchem Polymer & Industrial

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stellarchem-SV-B80E-TPV-Compound.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792
Particle Mesh Size	80 - 150 Mesh	80 - 150 Mesh	
Melt Flow	20 g/10 min	20 g/10 min	
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength, Ultimate	9.32 MPa	1350 psi	ASTM D412
Elongation at Break	520 %	520 %	ASTM D412
100% Modulus	0.03822 GPa	5.543 ksi	ASTM D412
Tear Strength	37.3 kN/m	213 pli	ASTM D412
Compression Set	43 %	43 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 170 °C	320 - 338 °F	Metering Temperature, Extrusion
Rear Barrel Temperature	150 - 160 °C	302 - 320 °F	Extrusion
	160 - 190 °C	320 - 374 °F	Injection Molding
Middle Barrel Temperature	155 - 165 °C	311 - 329 °F	Transition, Extrusion

Processing Properties	170 - 190 Â°C Metric	338 - 374 Â°F English	Injection Molding Comments
Front Barrel Temperature	170 - 180 Â°C	338 - 356 Â°F	Extrusion
	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Nozzle Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Die Temperature	170 - 180 Â°C	338 - 356 Â°F	Extrusion
Melt Temperature	150 - 180 Â°C	302 - 356 Â°F	Extrusion
	160 - 200 Â°C	320 - 392 Â°F	Injection Molding
Mold Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Injection Molding
Injection Pressure	5.00 - 40.0 MPa	725 - 5800 psi	Injection Molding
Back Pressure	0.500 - 1.00 MPa	72.5 - 145 psi	Injection Molding
Screw Speed	60 - 100 rpm	60 - 100 rpm	Extrusion
	100 - 200 rpm	100 - 200 rpm	Injection Molding

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