

Stellarchem GP-980 TPE Compound

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE

Material Notes:

This grade of Stellarchem TPE is shear dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It's a soft, elastomeric polyolefin based, completely recyclable, colorable & non-hygroscopic thermoplastics elastomer material. Information provided by Stellarchem Polymer & Industrial

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stellarchem-GP-980-TPE-Compound.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in ³	
Particle Mesh Size	80 - 150 Mesh	80 - 150 Mesh	
Melt Flow	37.8 g/10 min	37.8 g/10 min	JIS K7210

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	JIS K6301
Tensile Strength, Ultimate	4.71 MPa	683 psi	JIS K6301
Elongation at Break	389 %	389 %	JIS K6301
100% Modulus	0.0245 GPa	3.55 ksi	JIS K6301
300% Modulus	0.00137 GPa	0.199 ksi	JIS K6301
Tear Strength	3.50 kN/m	20.0 pli	JIS K6301-B

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 190 Â°C	338 - 374 Â°F	Metering Temperature, Extrusion
Rear Barrel Temperature	150 - 170 Â°C	302 - 338 Â°F	Injection Molding
	150 - 170 Â°C	302 - 338 Â°F	Extrusion
Middle Barrel Temperature	160 - 180 Â°C	320 - 356 Â°F	Injection Molding
	160 - 180 Â°C	320 - 356 Â°F	Transition, Extrusion
Front Barrel Temperature	170 - 190 Â°C	338 - 374 Â°F	Injection Molding
	180 - 200 Â°C	356 - 392 Â°F	Extrusion
Nozzle Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding

Die Temperature Processing Properties	180 - 200 Å°C Metric	356 - 392 Å°F English	Extrusion Comments
Melt Temperature	150 - 200 Å°C	302 - 392 Å°F	Injection Molding
	150 - 200 Å°C	302 - 392 Å°F	Extrusion
Mold Temperature	25.0 - 40.0 Å°C	77.0 - 104 Å°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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