

Dow SPECTRIM™ HH 390 Reaction Moldable Polymer

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-SPECTRIM-HH-390-Reaction-Moldable-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Filler Content	20 %	20 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	29.96 MPa	4346 psi	perpendicular; ASTM D638
	34.21 MPa	4962 psi	parallel; ASTM D638
Elongation at Break	52.7 %	52.7 %	parallel; ASTM D638
	74.1 %	74.1 %	perpendicular; ASTM D638
Flexural Modulus	1.03 GPa	150 ksi	perpendicular; ASTM D790
	1.88 GPa	273 ksi	parallel; ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Dart Drop, Total Energy	2.504 J	1.847 ft-lb	Max Load; ASTM D3763
	12.65 J	9.330 ft-lb	ASTM D3763
Impact Test	6.50 J	4.79 ft-lb	Energy at Max load; ASTM D3763
	20.4 J	15.0 ft-lb	Total Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	48.1 $\mu\text{m}/\text{m}\cdot\text{°C}$	26.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	52.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	28.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 66.1 °C	@Temperature 151 °F	
	55.1 $\mu\text{m}/\text{m}\cdot\text{°C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 121 °C	@Temperature 250 °F	

Thermal Properties	Metric	English	Comments
Creep to Flow	128 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	71.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature -40.0 $^\circ\text{C}$	@Temperature -40.0 $^\circ\text{F}$	
	141 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	78.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 66.1 $^\circ\text{C}$	@Temperature 151 $^\circ\text{F}$	
	147 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	81.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 121 $^\circ\text{C}$	@Temperature 250 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	204 $^\circ\text{C}$	400 $^\circ\text{F}$	ASTM D648

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