

DuPont Performance Polymers VESPEL TP-8556 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

Thermoplastic parts from filled PI (polyimide) for balanced mechanical properties and low wear and friction performance in high temperature hostile environments. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8556-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Water Absorption	0.20 %	0.20 %	50%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.20 %	0.20 %	Immersion 24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	106 MPa	15400 psi	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
	142 MPa	20600 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	1.7 %	1.7 %	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Strength	130 MPa	18900 psi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Modulus	0.0102 GPa	1.48 ksi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	3.308 J/cm	6.197 ft-lb/in	ASTM D4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties	8.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	4.44 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
CTE, linear, Transverse to Flow	@Temperature 150 °C	@Temperature 302 °F	
	36.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 228
	@Temperature 150 °C	@Temperature 302 °F	
Deflection Temperature at 1.8 MPa (264 psi)	244 °C	471 °F	ASTM D648
Glass Transition Temp, Tg	249 °C	480 °F	ASTM D3418

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Forms	Shapes	
Heat Stabilized	Yes	
Material Status	Current	
Polymer Family	Polyimide	
Polymer Type	PI	
Region Available - Global	Yes	
RoHS Compliance	Contact Manufacturer	
Ultrasonic Weldable	Yes	

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