

DuPont Performance Polymers VESPEL TP-8541 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

Thermoplastic parts from filled PI (polyimide) for high mechanical properties and impact performance in high temperature environments
Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8541-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
	1.41 g/cc @Temperature 23.0 °C	1.41 g/cc @Temperature 73.4 °F	ASTM D792
Water Absorption	0.050 %	0.050 %	Immersion 24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	82	82	ASTM D785
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength	117 MPa	17000 psi	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
Elongation at Break	1.8 %	1.8 %	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Strength	162 MPa	23500 psi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Modulus	0.0121 GPa	1.75 ksi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
	0.0150 GPa	2.18 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 µm/m-°C	6.67 µin/in-°F	ASTM E 228
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	
	34.0 µm/m-°C	18.9 µin/in-°F	

Thermal Properties	Metric @ Temperature 23.0 - 150 °C	English @ Temperature 73.4 - 302 °F	Comments
CTE Linear Transverse to Flow			ASTM D 220
Deflection Temperature at 1.8 MPa (264 psi)	292 °C	558 °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	

Contact Songhan Plastic Technology Co.,Ltd.

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