

DuPont Performance Polymers VESPEL TP-8169 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

DuPont Vespel TP-8169 parts are specified for high-temperature applications. TP-8169 parts offer a unique balance of mechanical and thermal properties for high performance in aggressive environments. TP-8169 parts are produced from unreinforced thermoplasInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8169-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Water Absorption	0.090 %	0.090 %	60%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.23 %	0.23 %	50%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	91.0 MPa	13200 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	31 %	31 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	135 MPa	19600 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.00320 GPa	0.464 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	252 °C	486 °F	ASTM D648
Flammability, UL94	V-0	V-0	DAM; UL94
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	5VA	5VA	

Thermal Properties	Metric @ Thickness 2.00 mm	English @ Thickness 0.0787 in	DAM: UL 94 Comments
Oxygen Index	47 %	47 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 - 1.00e+18 ohm-cm @Temperature 23.0 °C	1.00e+17 - 1.00e+18 ohm-cm @Temperature 73.4 °F	ASTM D257
Surface Resistance	1.00e+15 - 1.00e+16 ohm @Temperature 23.0 °C	1.00e+15 - 1.00e+16 ohm @Temperature 73.4 °F	ASTM D257
Dielectric Constant	3.1 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	3.1 @Frequency 1.00e+6 Hz, Temperature 73.4 °F	ASTM D150
	3.2 @Frequency 10000 Hz, Temperature 23.0 °C	3.2 @Frequency 10000 Hz, Temperature 73.4 °F	ASTM D150
Dissipation Factor	0.00090 @Frequency 10000 Hz, Temperature 23.0 °C	0.00090 @Frequency 10000 Hz, Temperature 73.4 °F	ASTM D150
	0.0034 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	0.0034 @Frequency 1.00e+6 Hz, Temperature 73.4 °F	ASTM D150

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Forms	Shapes	
Material Status	Current	
Region Available - Global	Yes	
RoHS Compliance	Contact Manufacturer	

Contact Songhan Plastic Technology Co.,Ltd.

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