

DuPont Performance Polymers VESPEL TP-8212 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

DuPont Vespel TP-8212 parts are specified for high-temperature applications requiring electrical insulation. TP-8212 parts offer a unique balance of mechanical and thermal properties with a low coefficient of thermal expansions, resistance to chemicals and information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8212-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Water Absorption	0.10 %	0.10 %	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	106 MPa	15400 psi	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
	165 MPa	23900 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	3.0 %	3.0 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.0 %	4.0 %	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Strength	173 MPa	25100 psi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
	241 MPa	35000 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.00800 GPa	1.16 ksi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
	0.00950 GPa	1.38 ksi	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D790 Comments
Izod Impact, Notched	1.20 J/cm @Temperature 23.0 °C	2.25 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm @Temperature 23.0 °C	1.00e+14 ohm @Temperature 73.4 °F	ASTM D257
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	3.7 @Frequency 1.00e+6 Hz, Temperature 73.4 °F	ASTM D150
	3.8 @Frequency 10000 Hz, Temperature 23.0 °C	3.8 @Frequency 10000 Hz, Temperature 73.4 °F	ASTM D150
Dissipation Factor	0.0012 @Frequency 10000 Hz, Temperature 23.0 °C	0.0012 @Frequency 10000 Hz, Temperature 73.4 °F	ASTM D150
	0.0036 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	0.0036 @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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