

DuPont Performance Polymers VESPEL TP-8161 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

DuPont Vespel TP-8161 parts are specified for high-temperature applications. TP-8161 parts offer a unique balance of mechanical and thermal properties for superior performance in aggressive environments. TP-8161 parts are produced from unfilled thermoplasInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8161-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Water Absorption	0.070 %	0.070 %	60%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.16 %	0.16 %	50%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	80.0 MPa	11600 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	
Flexural Strength	154 MPa	22300 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.00420 GPa	0.609 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	0.370 J/cm	0.693 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)	295 °C	563 °F	ASTM D648
Flammability, UL94	V-0	V-0	DAM; UL94
	@Thickness 0.400 mm	@Thickness 0.0157 in	

Thermal Properties	^{EVA} Metric	^{EVA} English	Comments ^{DAM, UL94}
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Oxygen Index	47 %	47 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 - 1.00e+18 ohm-cm	1.00e+17 - 1.00e+18 ohm-cm	ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Surface Resistance	1.00e+15 - 1.00e+16 ohm	1.00e+15 - 1.00e+16 ohm	ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dielectric Constant	3.1	3.1	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 23.0 °C	@Frequency 1.00e+6 Hz, Temperature 73.4 °F	
	3.2	3.2	ASTM D150
	@Frequency 10000 Hz, Temperature 23.0 °C	@Frequency 10000 Hz, Temperature 73.4 °F	
Dissipation Factor	0.00090	0.00090	ASTM D150
	@Frequency 10000 Hz, Temperature 23.0 °C	@Frequency 10000 Hz, Temperature 73.4 °F	
	0.0030	0.0030	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 23.0 °C	@Frequency 1.00e+6 Hz, Temperature 73.4 °F	

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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