

DuPont Performance Polymers VESPEL TP-8054 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

DuPont Vespel TP-8054 parts are specified for high-temperature applications requiring a balance of mechanical and thermal properties.

TP-8054 parts are produced from unreinforced thermoplastic polyimide (TPI). Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8054-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Water Absorption	0.24 %	0.24 %	60%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.34 %	0.34 %	50%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	47	47	ASTM D785
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength	58.0 MPa	8410 psi	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
	92.0 MPa	13300 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	90 %	90 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90 %	90 %	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
	137 MPa	19900 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.00260 GPa	0.377 ksi	ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	

Mechanical Properties	Metric	English	Comments
	10 GPa		ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	0.900 J/cm	1.69 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)	238 °C	460 °F	ASTM D648

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	
	0.0034	0.0034	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	

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China