

## DuPont Performance Polymers VESPEL TP-8311 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

### Material Notes:

Thermoplastic parts from filled PI (polyimide) for balanced mechanical properties and low wear and friction performance in both dry and lubricated 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-8311-Polyimide.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8311-Polyimide.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
	1.38 g/cc @Temperature 23.0 °C	1.38 g/cc @Temperature 73.4 °F	ASTM D792
Water Absorption	0.11 %	0.11 %	Immersion 24h; ASTM D570
	0.11 % @Temperature 23.0 °C	0.11 % @Temperature 73.4 °F	50%RH,23°C,24h; ASTM D570

Mechanical Properties	Metric	English	Comments
Elongation at Break	4.0 %	4.0 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	215 MPa	31200 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.00630 GPa	0.914 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Strength	44.0 MPa	6380 psi	ASTM D695
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	ASTM E 228
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ASTM E 228
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	

Glass Transition Temp, Tg Thermal Properties	249 °C Metric	480 °F English	ASTM D3418 Comments
UL RTI, Electrical	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flammability, UL94	V-0	V-0	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	

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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