

## DuPont Performance Polymers VESPEL TP-8549 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

### Material Notes:

Thermoplastic parts from filled PI (polyimide) for high mechanical properties and low wear and friction performance in high temperature hostile environments. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-VESPEL-TP-8549-Polyimide.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-VESPEL-TP-8549-Polyimide.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	50%RH,23°C,24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.080 %	0.080 %	Immersion 24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	119 MPa	17300 psi	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
Elongation at Break	2.0 %	2.0 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.0 %	2.0 %	ASTM D638
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Modulus	0.0204 GPa	2.96 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Strength	45.0 MPa	6530 psi	ASTM D695
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	11.0 µm/m-°C	6.11 µin/in-°F	ASTM E 228
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	
	37.0 µm/m-°C	20.6 µin/in-°F	

Thermal Properties	Metric	English	Comments
<i>CTE Linear Transverse to Flow</i>	@ Temperature 23.0 - 150 °C	@ Temperature 73.4 - 302 °F	ASTM D328
Glass Transition Temp, Tg	249 °C	480 °F	ASTM D3418

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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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