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PEEK™ 450G Resin

PROPERTY	NOMINAL VALUES	TEST METHOD
Physical		
Density – Specific Gravity	1.30	ASTM D792
Water Absorption – Sat (23 °C)	0.50 %	ISO 62
Water Absorption (24 hrs, 73 °F)	0.50 %	ASTM D570
Mechanical		
Tensile Strength at Yield (0.20 in/min) 73 °F 482 °F	14,100 psi 1,740 psi	ASTM D638
Tensile Elongation at Yield (73 °F, 0.20 in/min)	4.9 %	ASTM D638
Tensile Elongation at Break (73 °F, 0.20 in/min)	50 %	ASTM D638
Flexural Modulus 73 °F 248 °F 482 °F	594,000 psi 580,000 psi 43,500 psi	ASTM D790
Flexural Strength 73 °F 248 °F 482 °F	24,700 psi 14,500 psi 1,800 psi	ASTM D790
Thermal		
DTUL at 264 psi – Unannealed	320 °F	ASTM D648
Glass Transition Temp	289 °F	DSC
Melting Point	644 °F	DSC
Electrical		
Dielectric Strength (0.00197 in)	483 V/mil	ASTM D149
Dielectric Constant 50 Hz 10,000 Hz 392 °F, 50 Hz	3.250 3.250 4.500	ASTM D150
Impact		
Notched Izod Impact (73 °F)	1.57 ft-lb/in	ASTM D256
Unnotched Izod Impact (73 °F)	No Break	ASTM D256

*PEEK is a registered trademark of Victrex

**Typical values only. Actual properties of individual batches will vary within specification limits.