

TYPICAL PROPERTIES OF NATURAL PEEK

Property	Test Method	U.S. Units	SI Units
Mechanical Properties			
Tensile Strength	ASTM D 638	13,800 psi	95 MPa
Tensile Modulus	ASTM D 638	510,000 psi	3,500 MPa
Tensile Elongation at Yield	ASTM D 638	5.20%	5.20%
Tensile Elongation at Break	ASTM D 638	20% - 30%	20% - 30%
Flexural Strength	ASTM D 790	21,200 psi	146 MPa
Flexural Modulus	ASTM D 790	540,000 psi	3,700 MPa
Izod Impact, Notched	ASTM D 256	1.3 ft-lb/in	70 J/m
Izod Impact, Unnotched	ASTM D 4812	No Break	No Break
Physical Properties			
Water Absorption	ASTM D 570	0.10%	0.10%
Specific Gravity	ASTM D 792	1.3	1.3
Thermal Properties			
Heat Deflection Temperature	ASTM D 648	315°F	157°C
Glass Transition Temperature	ASTM D 3417	302°F	150°C
Electrical Properties			
Dielectric Strength	IEC 248	-	190 kV/mm ⁻¹
Dielectric Constant (50Hz 0-150° C)	IEC 250	-	3.2
Volume Resistivity	IEC 93	-	4.9 x 10 ¹⁶ Ω cm

For inquires or additional information, please call: 1 (281) 255-6855

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Data courtesy of [Solvay Advanced Polymers](#).