

PEEK

DESCRIPTION

PEEK is a compound based on Polyetheretherketone resin containing 30% Glass Fiber. Added features of this material include: low warpage, easy Molding.

PROPERTIES	English	SI Metric	ASTM TEST
PERMANENCE			
Primary Additive	30%	30%	
Specific Gravity	1.52	1.52	ASTM D 792
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	18.5 ft-lbs/in	988 J/m	D 4812
Tensile Strength	27000 psi	186 MPa	D 638
Tensile Elongation	2.5 - 3.5 %	2.5 - 3.5 %	D 638
Tensile Modulus	1.50 x 10 ⁶ psi	10342 MPa	D 638
Flexural Strength	42000 psi	290 MPa	D 790
THERMAL			
Coefficient of Linear Thermal Expansion			
Flow Direction	1.0 x 10 ⁻⁵ /°F	1.9 x 10 ⁻⁵ /°C	E 831
Transverse Direction	2.7 x 10 ⁻⁵ /°F	4.9 x 10 ⁻⁵ /°C	E 831
PROPERTY NOTES			
Data herein is typical and not to be construed as specifications.			
Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.			
GENERAL PROCESSING FOR INJECTION MOLDING			
Injection Pressure	12000 - 18000 psi	83 - 124 MPa	
Melt Temperature	660 - 750 °F	349 - 399 °C	
Mold Temperature	325 - 425 °F	163 - 218 °C	
Drying	3 hrs @ 300 °F	3 hrs @ 149 °C	
Moisture Content	0.10 %	0.10 %	
Dew Point	-20 °F	-29 °C	

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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