



PEKK Plus[®] 07-P0684-01

Polyetherketoneketone, 35% glass filled, white

General	ASTM No.	US Value	SI Unit
Form	---	Pellets	Pellets
Specific Gravity	D792	1.52	1.52
Water Absorption (24hr. @ 23 °C, %)	D570	0.04%	0.04%
Linear Mold Shrinkage, in/in	D955	0.003	0.003
Mechanical			
Tensile Strength	D638/D3039/ D3039M	28 kpsi	193 MPa
Tensile Modulus	D638/D3039/ D3039M	1.9 Mpsi	13.1 GPa
Elongation (Break), %	D638/D3039/ D3039M	2.0%	2.0%
Flexural Strength	D790	38 kpsi	262 MPa
Flexural Modulus	D790	1.7 Mpsi	11.7 GPa
Izod, Notched, ft-lb/in @ 1/8"	D256	1.8	0.08
Hardness, Rockwell M	D785/D2240	103	103
Thermal			
Melting Point, °F	DSC/D3418	680	360 °C
Tg °F	DSC/D3418	325	163 °C
CLTE, linear μin/in - °F (<Tg)	D696/E831	8.9	16 μ m/m - °C
HDT@ 264 psi, °F	DMA/D648	610	321 °C
Electrical			
Dielectric Strength V/mil	D149	600	236 V/cm
Dielectric Constant @1Khz	D150	3.3	3.3
Dissipation Factor @1Khz	D150	0.004	0.004
Volume Resistivity ohm/cm x 10¹⁶	D257	1 Ω in	2.5 Ω cm
Surface Resistivity ohm/sq x 10¹⁶	D257	2 Ω in	5.1 Ω cm



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