



Arylmax[®] K7500CF30

Polyaryletherketone, 30% Carbon Reinforced, with Tg of 338°F (170°C)

General	ASTM Test	US Value	SI Unit
Density	D792	0.0505 lb/in ³	1.40 g/ml
Water Absorption (24hr. @ 23 °C, %)	D570	0.1%	
Mechanical			
Tensile Strength	D638	37.7 Kpsi	260 MPa
Tensile Modulus	D638	3.335 Mpsi	23 GPa
Tensile Elongation (Break), %	D638	2.3%	
Flexural Strength	D790	56 Kpsi	386 MPa
Flexural Modulus	D790	3.5 Mpsi	24 GPa
Compressive Strength	D695	37.5 Kpsi	258 MPa
Izod, notched, ft-lb/in @ 1/8"	D256	1.1	0.6 J/cm
Izod, unnotched, ft-lb/in @ 1/8"	D256	6.6	3.6 J/cm
Thermal			
Melting Point	DSC	667°F	353 °C
Tg, °F	DSC	338°F	170 °C
CLTE, linear μ in/in - °F (<Tg)	D696	6	10 μ m/m-°C
HDT@ 264 psi, °F	D648	600 °F	315 °C
Other			
Dynamic Coefficient of Friction	D1894	0.16	
Static Coefficient of Friction	D1894	0.22	

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