

TECAPEEK CM XP96 BLACK

Compression Molded DATASHEET

PEEK: Unfilled, black pigmented

Description	ASTM Test Method	Units	Typical Values
<i>Mechanical Properties</i>			
Tensile Strength	D-638	psi	13,800
Tensile Elongation	D-638	% @ break	4.5
Tensile Modulus	D-638	psi	770,000
Flexural Strength	D-790	psi	22,300
Flexural Modulus	D-790	psi	700,000
Flexural Strain	D-790	%	4.5
Compressive Strength (10% Deformation)	D-695	psi	19,300
Compressive Modulus	D-695	psi	360,000
Izod Impact Strength (Notched)	D-256	ft-lb/in	0.58
Shear Strength	D-732	psi	
Hardness	D-2240	Shore D	89
Hardness	D-785	Rockwell (M)	101
<i>Thermal Properties</i>			
Heat Distortion Temperature	D-648	°F	300
Coefficient of Linear Thermal Expansion	D-696	10 ⁻⁶ /°F	
Thermal Conductivity	C-177	BTU in/hr-ft ² -°F	
Continuous Use (Mechanical)	UL746B	°F	
Glass Transition	DSC	°F	289
Melt Point	DSC	°F	649
<i>Electrical Properties</i>			
Dielectric Strength	D-149	KVcm	
Dielectric Constant	D-150	50Hz, 200°C	
Volume Resistivity	D-257	ohm-cm	
Surface Resistivity	D-257	ohm/sq	
<i>Physical Properties</i>			
Specific Gravity	D-792	gm/cm ³	1.36
Color			Black
Filler Content		%	0
Water Absorption (RT 24h)	D-570	%	0.05
Typical Level of Crystallinity		%	

Note: Listed properties should be interpreted as typical rather than minimum values. This technical information is presented in good faith and is based upon what is believed to be reliable laboratory data. We cannot guarantee the accuracy or completeness of this information. The responsibility for determining product suitability for any given application lies with the customer.