



COMPOUND: A673

POLYMER: Polyetheretherketone (PEEK)

DESCRIPTION: Carbon Fiber Reinforced PEEK Compound

Property	Test Method	Internal Specification Values	Typical Values	Units
Specific Gravity	ASTM D792	1.31 ± .02	1.31	-
Hardness	ASTM D2240	85 ± 5	85	SHORE-D
Tensile Strength at Break	ASTM D638	12,000 Minimum	14,500	PSI
Elongation at Break	ASTM D638	3.50 Minimum	6.00	%
Tensile Modulus	ASTM D638	---	1000	KSI
Tensile Strength at Yield	ASTM D638	---	18,500	PSI
Elongation at Yield	ASTM D638	---	4.3	%
Flexural Modulus	ASTM D790	700 Minimum	850	KSI
Flexural Strength	ASTM D790	---	29,000	PSI
Impact Strength, Izod, Notched	ASTM D256	---	1.85	Ft-lb/Inch
Impact Strength, Izod, Unnotched	ASTM D256	---	17.9	Ft-lb/Inch
Mold Shrinkage Flow Across Flow	---	---	0.554 0.826	%
Melt Viscosity @ 1000/s 400 °C	ASTM D3835	---	0.6 – 0.8	kPa-s

REVISION HISTORY

REV. NONE – Initial Release 5/01/2020 – Raju K

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