



Electrafil® PEEK 11002 BK

Techmer Polymer Modifiers - *Polyetheretherketone*

Action



General Information

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Conductive
Appearance	• Black
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.016	in/in	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13000	psi	ASTM D638
Tensile Elongation (Yield)	> 3.0	%	ASTM D638
Flexural Modulus	425000	psi	ASTM D790
Flexural Strength	20000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.4	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	570	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	320	°F	ASTM D648
CLTE - Flow	3.1E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 to 1.0E+9	ohms	ASTM D257
Volume Resistivity	1.0E+6 to 1.0E+9	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.03 in)	V-0		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.