

Electrafil® 1105-10819

 Techmer Polymer Modifiers - *Polyetheretherketone*
General Information
General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.40		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.040	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37000	psi	ASTM D638
Tensile Elongation (Yield)	> 1.7	%	ASTM D638
Flexural Modulus	3.20E+6	psi	ASTM D790
Flexural Strength	54000	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)	118		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	650	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	635	°F	ASTM D648
CLTE - Flow	6.0E-6	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	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

