

Electrafil® TPX-IONOMER-02035 BK

Techmer Polymer Modifiers - Ionomer

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	1.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.025	in/in	ASTM D955
Water Absorption (24 hr)	0.090	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5900	psi	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	465000	psi	ASTM D790
Flexural Strength	8000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°F, 0.125 in	2.0	ft·lb/in	
73°F, 0.125 in	2.0	ft·lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	202	°F	ASTM D648
Melting Temperature	262	°F	
CLTE - Flow	2.2E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257

