

Electrafil® HDPE 1000

 Techmer Polymer Modifiers - *High Density Polyethylene*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
UL File Number	• E157318
Appearance	• Black • Colors Available
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	0.955		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.030	in/in	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical			
Nominal Value Unit Test Method			
Tensile Strength (Yield)	4500	psi	ASTM D638
Tensile Strength (Break)	3100	psi	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	175000	psi	ASTM D790
Flexural Strength	6000	psi	ASTM D790
Impact			
Nominal Value Unit Test Method			
Notched Izod Impact (73°F, 0.125 in)	2.0	ft·lb/in	ASTM D256
Hardness			
Nominal Value Unit Test Method			
Rockwell Hardness (R-Scale)	45		ASTM D785
Thermal			
Nominal Value Unit Test Method			
Deflection Temperature Under Load (66 psi, Unannealed)	205	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ASTM D648
CLTE - Flow	8.0E-5	in/in/°F	ASTM D696
Electrical			
Nominal Value Unit Test Method			
Surface Resistivity	1.0E+7 to 1.0E+9	ohms	ASTM D257
Volume Resistivity	1.0E+7 to 1.0E+9	ohms·cm	ASTM D257
Static Decay	< 0.200		FTMS 101B
Flammability			
Nominal Value Unit Test Method			
Flame Rating (0.20 in)	HB		UL 94

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