

Electrafil® HDPE 1000

High Density Polyethylene

Techmer Engineered Solutions

Message:

Electrafil® HDPE 1000 is a High Density Polyethylene product. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
UL File Number	E157318		
Appearance	Black		
	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.953	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	3.0	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	45		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	31.0	MPa	
Break	21.4	MPa	
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	1210	MPa	ASTM D790
Flexural Strength	41.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	96.1	°C	
1.8 MPa, Unannealed	60.0	°C	
CLTE - Flow	1.4E-4	cm/cm/°C	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 (5.08 mm)	HB		UL 94

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Recommended distributors for this material

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