

Electrafil® HDPE C BK

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

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
UL File Number	<ul style="list-style-type: none"> E157318
Appearance	<ul style="list-style-type: none"> Black
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 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 (Break)	4500	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 (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+5	ohms	ASTM D257

