

Electrafil® HDPE 12009

Techmer Polymer Modifiers - *High Density Polyethylene*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Filler
Features	• Antistatic
Appearance	• Colors Available • Natural Color • Off-White
Forms	• Pellets
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.970		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	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	2900	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	100000	psi	ASTM D790
Flexural Strength	3500	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	35		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	250	°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+9 to 1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+9 to 1.0E+11	ohms·cm	ASTM D257
Static Decay	< 2.0	sec	MIL B-81705C
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

