

HiFill® MD 90-80039 GY

Techmer Polymer Modifiers - *High Density (HMW) Polyethylene*

General Information

Product Description

HDPE, Metallic Filler, Activated for Metal Detection, Low Extractables for FDA Compliant Applications

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Low Extractables • Metal Detectable
Agency Ratings	• FDA
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Flow (0.125 in)	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	200000	psi	ASTM D638
Tensile Strength (Yield)	2600	psi	ASTM D638
Tensile Elongation (Yield)	80	%	ASTM D638
Flexural Modulus	185000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	102	°F	ASTM D648
CLTE - Flow	2.2E-5	in/in/°F	ASTM D696

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	390 to 430	°F
Middle Temperature	420 to 500	°F
Front Temperature	400 to 450	°F
Nozzle Temperature	360 to 380	°F
Processing (Melt) Temp	350 to 450	°F
Mold Temperature	50 to 110	°F

Notes

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

