

HiFill® MD 90-80039 GY

High Density (HMW) Polyethylene
Techmer Engineered Solutions

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

General Information			
Features	Low Extractables		
	Metal Detectable		
Agency Ratings	FDA Unspecified Rating		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1380	MPa	ASTM D638
Tensile Strength (Yield)	17.9	MPa	ASTM D638
Tensile Elongation (Yield)	80	%	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	38.9	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	199 to 221	°C	
Middle Temperature	216 to 260	°C	
Front Temperature	204 to 232	°C	
Nozzle Temperature	182 to 193	°C	
Processing (Melt) Temp	177 to 232	°C	
Mold Temperature	10.0 to 43.3	°C	

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