



Modified Plastics MPE-FG5

Modified Plastics, Inc. - Polyethylene

General Information

General

Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.990		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	200000	psi	ASTM D638
Tensile Strength (Yield)	5200	psi	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	250000	psi	ASTM D790
Flexural Strength (Yield)	60000	psi	ASTM D790
Compressive Strength	4200	psi	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	1.3	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	165	°F	ASTM D648

Additional Information

Mold Shrinkage, ASTM D955, 0.250": 6 mils/in

Tensile Elongation, ASTM D638: 6-7 %

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	325	°F
Mold Temperature	90 to 150	°F