

# Modified Plastics MPE-FG5

Polyethylene

Modified Plastics, Inc.

## Message:

Modified Plastics MPE-FG5 is a polyethylene product, which contains a 5.0% glass fiber reinforced material. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 5.0% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.988	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1380	MPa	ASTM D638
Tensile Strength (Yield)	35.9	MPa	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength (Yield)	414	MPa	ASTM D790
Compressive Strength	29.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.9	°C	ASTM D648
Additional Information			
Mold Shrinkage, ASTM D955, 0.250": 6 mils/inTensile Elongation, ASTM D638: 6-7 %			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	163	°C	
Mold Temperature	32.2 - 65.6	°C	

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Recommended distributors for this material

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