

Modified Plastics MAC-FG10 BK

Thermoplastic
Modified Plastics, Inc.

Message:

Modified Plastics MAC-FG10 BK is a thermoplastic product. It can be processed by injection molding and is available in North America. The main characteristics are: flame retardant/rated flame.

General Information			
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60 - 1.3	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength (Yield)	71.7	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	146	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Additional Information			
Tensile Strength, ASTM D638: 9300 to 11500 psiTensile Elongation, ASTM D638: 3 to 7 psiTensile Modulus, ASTM D638: 610,000 to 690,000 psiFlexural Strength, ASTM D790: 16000 to 17500 psiFlexural Modulus, ASTM D790: 500,000 to 600,000 psiNotched Izod Impact Strength, ASTM D256, 0.125 in: 0.6 to 1.0 ft-lb/in			
Injection	Nominal Value	Unit	
Drying Temperature	71.1	°C	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	166 - 232	°C	
Mold Temperature	65.6 - 104	°C	

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