



Modified Plastics MAC-FG10 BK

Modified Plastics, Inc. - Thermoplastic

General Information

General

Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.48		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3 to 0.013	in/in	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	650000	psi	ASTM D638
Tensile Strength (Yield)	10400	psi	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	16800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.80	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	295	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Additional Information

Tensile Strength, ASTM D638: 9300 to 11500 psi
 Tensile Elongation, ASTM D638: 3 to 7 psi
 Tensile Modulus, ASTM D638: 610,000 to 690,000 psi
 Flexural Strength, ASTM D790: 16000 to 17500 psi
 Flexural Modulus, ASTM D790: 500,000 to 600,000 psi
 Notched Izod Impact Strength, ASTM D256, 0.125 in: 0.6 to 1.0 ft-lb/in

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160	°F
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	330 to 450	°F
Mold Temperature	150 to 220	°F