

## MRC Polymers NAXALOY 770 ABS + PC Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Impact modified Available in Natural, Black, and Gray Can be Colored (Masterbatch) Low temperature ductility and impact modified Can be UV Stabilized Internal and external lubricant can be added Information provided by MRC Polymers Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MRC-Polymers-NAXALOY-770-ABS-PC-Alloy.php](http://www.lookpolymers.com/polymer_MRC-Polymers-NAXALOY-770-ABS-PC-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 3.80 kg, Temperature 230 Â°C	3.0 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm @Temperature -30.0 Â°C	8.00 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
	6.41 J/cm @Temperature 22.8 Â°C	12.0 ft-lb/in @Temperature 73.0 Â°F	ASTM D256
Falling Dart Impact	51.5 J @Temperature -28.9 Â°C	38.0 ft-lb @Temperature -20.0 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 271 Â°C	480 - 520 Â°F	
Middle Barrel Temperature	260 - 277 Â°C	500 - 530 Â°F	
Front Barrel Temperature	271 - 282 Â°C	520 - 540 Â°F	
Nozzle Temperature	260 - 282 Â°C	500 - 540 Â°F	
Melt Temperature	243 - 271 Â°C	470 - 520 Â°F	
Mold Temperature	48.9 - 82.2 Â°C	120 - 180 Â°F	
Drying Temperature	87.8 - 110 Â°C	190 - 230 Â°F	
Dry Time	4 hour	4 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Dew Point	<= -17.8 Â°C	<= 0.000 Â°F	
Drying Air Flow Rate	22.7 - 28.3 l/min	0.800 - 1.00 ftÂ³/min (CFM)	per lb/hour resin processed
Injection Pressure	68.9 - 138 MPa	10000 - 20000 psi	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Cushion	0.330 - 0.635 cm	0.130 - 0.250 in	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

Descriptive Properties	Value	Comments
Fill Rate	Slow to Moderate	
Hold Pressure	40-60% of injection pressure	
Packing Pressure	50-75% of injection pressure	

## Contact Songhan Plastic Technology Co.,Ltd.

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