

## MRC Polymers EMAREX<sup>®</sup>,ç 400 GF13 Nylon 6/6, 13% Glass Fiber Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

### Material Notes:

Available in Black only Can be UV and Heat Stabilized Property data for DAM samples. Information provided by MRC Polymers Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MRC-Polymers-EMAREX-400-GF13-Nylon-66-13-Glass-Fiber-Filled.php](http://www.lookpolymers.com/polymer_MRC-Polymers-EMAREX-400-GF13-Nylon-66-13-Glass-Fiber-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Filler Content	11 - 15 %	11 - 15 %	ASTM D2584
Water Absorption	1.0 %	1.0 %	ASTM D570
Relative Viscosity	50 cP	50 cP	ASTM D789
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength at Break	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	4.14 GPa	600 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Temperature 22.8 Â°C	0.800 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	265 Â°C	509 Â°F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	199 Â°C	390 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	288 - 299 Â°C	550 - 570 Â°F	
Middle Barrel Temperature	277 - 282 Â°C	530 - 540 Â°F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	282 - 293 Â°C	540 - 560 Â°F	
Melt Temperature	260 - 282 Â°C	500 - 540 Â°F	
Mold Temperature	65.6 - 121 Â°C	150 - 250 Â°F	
Drying Temperature	85.0 Â°C	185 Â°F	
Dry Time	4 - 6 hour	4 - 6 hour	
Moisture Content	<= 0.18 %	<= 0.18 %	
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	0.000 - 0.517 MPa	0.000 - 75.0 psi	
Cushion	0.635 cm	0.250 in	
Screw Speed	30 - 75 rpm	30 - 75 rpm	

Descriptive Properties	Value	Comments
Fill Rate	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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