

## MRC Polymers EMAREX<sup>®</sup>,ç 400 GF33 Nylon 6/6, 33% Glass Fiber Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% 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-GF33-Nylon-66-33-Glass-Fiber-Filled.php](http://www.lookpolymers.com/polymer_MRC-Polymers-EMAREX-400-GF33-Nylon-66-33-Glass-Fiber-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Filler Content	31 - 35 %	31 - 35 %	ASTM D2584
Water Absorption	1.0 %	1.0 %	ASTM D570
Relative Viscosity	50 cP	50 cP	ASTM D789
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	101	101	ASTM D785
Tensile Strength at Break	170.00 MPa	24656 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	214 MPa	31000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Temperature 22.8 Â°C	1.30 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)	244 Â°C	471 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	232 Â°C	450 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	271 - 293 Â°C	520 - 560 Â°F	
Mold Temperature	65.6 - 121 Â°C	150 - 250 Â°F	
Drying Temperature	82.2 - 93.3 Â°C	180 - 200 Â°F	During prolong interruptions the hopper dryer temperature should be reduced to 65Â°C or lower.
Dry Time	4 - 6 hour	4 - 6 hour	Until they reach 0.13% or less moisture level. If bags were left exposed for 3 or more hours, they may not need drying. If exposed to moisture for longer period of time, such as days, they may need 16hrs to dry
Moisture Content	<= 0.14 %	<= 0.14 %	
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 - 0.345 MPa	0.000 - 50.0 psi	
Cushion	0.635 cm	0.250 in	
Screw Speed	30 - 90 rpm	30 - 90 rpm	

Descriptive Properties	Value	Comments
Dryer	Multiple desiccant chambers and leak free pipes	
Fill Rate	Moderate-Fast	
Hold Pressure	40-60% of injection pressure	
Packing Pressure	50-75% of injection pressure	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China