

MRC Polymers EMAREX[®], 300 GF43 Nylon 6, 43% Glass Fiber Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% 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-300-GF43-Nylon-6-43-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Filler Content	41 - 45 %	41 - 45 %	ASTM D2584
Water Absorption	0.80 %	0.80 %	ASTM D570
Relative Viscosity	50 cP	50 cP	ASTM D789
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	201.00 MPa	29152 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Temperature 22.8 Â°C	1.50 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	215 Â°C	419 Â°F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	425 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	207 Â°C	405 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 271 Â°C	480 - 520 Â°F	
Middle Barrel Temperature	260 - 282 Â°C	500 - 540 Â°F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	271 - 293 Â°C	520 - 560 Â°F	
Melt Temperature	260 - 282 Â°C	500 - 540 Â°F	
Mold Temperature	37.8 - 93.3 Â°C	100 - 200 Â°F	Where aesthetics are critical its preferred to use 180-200Â°F
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	4 - 6 hour	4 - 6 hour	
Moisture Content	<= 0.13 %	<= 0.13 %	
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.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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