

EMAREX® 400 GF43

Polyamide 66

MRC Polymers, Inc.

Message:

Further information and details are available upon request.

Available in Black ONLY

Can be Heat Stabilized

Can be UV Stabilized

Glass Fiber Content can vary between 13 to 43 %

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 43% filler by weight		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Relative Viscosity	50	mPa · s	ASTM D789
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	215	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus - Tangent	11000	MPa	ASTM D790
Flexural Strength	296	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	260	°C	ASTM D648
1.8 MPa, not annealed	252	°C	ASTM D648
Melting Temperature	265	°C	ASTM D789
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 93.3	°C	
Drying Time	4.0 - 6.0	hr	
Dew Point	< -17.8	°C	
Suggested Max Moisture	0.14	%	
Rear Temperature	288 - 299	°C	
Middle Temperature	277 - 282	°C	
Front Temperature	271 - 277	°C	

Nozzle Temperature	282 - 293	°C
Processing (Melt) Temp	271 - 293	°C
Mold Temperature	65.6 - 121	°C
Injection Pressure	68.9 - 138	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.00 - 0.345	MPa
Screw Speed	30 - 90	rpm
Cushion	6.35	mm

Injection instructions

Packing: 50 to 75% of injection pressure Hold: 40 to 60% of injection pressure Air Flow Rate: 0.8-1.0 CFM per lb/hour resin processed

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

