

Matrixx FP63E33

Polyamide 6

The Matrixx Group, Inc.

Message:

Matrixx FP63E33 is a polyamide 6 (nylon 6) material, which contains a 33% glass fiber reinforced material. This product is available in North America and is processed by injection molding. The main characteristics of Matrixx FP63E33 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 - 0.40	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	186	MPa	ASTM D638
Flexural Modulus - Tangent	8270	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	199	°C	ASTM D648
RTI	65.6	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 93.3	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	260 - 288	°C	
Middle Temperature	260 - 288	°C	
Front Temperature	260 - 288	°C	
Processing (Melt) Temp	260 - 293	°C	
Mold Temperature	82.2 - 93.3	°C	
Injection Rate	Fast		
Back Pressure	< 0.345	MPa	
Cushion	6.35 - 12.7	mm	
Injection instructions			
Dessicant dryer with -20°F dewpointScrew Speed: Slow to Medium			

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Recommended distributors for this material

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