

RTP VLF 80211 EM HS

Polyamide 66

RTP Company

Message:

Long Glass Fiber - Easy Molding - Heat Stabilized

General Information			
Filler / Reinforcement	Long glass fiber, 60% filler by weight		
Additive	heat stabilizer		
Features	Good formability		
	Thermal Stability		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.71	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.30	%	ASTM D955
Moisture Content	0.20	%	
Primary Additive	60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22400	MPa	ASTM D638
Tensile Strength	276	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 2.5	%	ASTM D638
Flexural Modulus	20000	MPa	ASTM D790
Flexural Strength	414	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	530	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	1600	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	249	°C	ASTM D648
1.8 MPa, not annealed	243	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0 - 4.0	hr	
Dew Point	-17.8	°C	
Processing (Melt) Temp	271 - 299	°C	

Mold Temperature	65.6 - 124	°C
Injection Pressure	34.5 - 124	MPa
Injection instructions		

Use a reverse barrel profile. To maximize fiber length, the following injection barrel, screw, and tip designs should be followed. L/D ratio 16/1 - 22/1, Compression ratio 2:1, Flight depth 0.200 in (5 mm) minimum, in feed section, Screw diameter 0.65 - 0Desiccant Type Dryer Required.

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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

