

RTP PA66 40 GF BLK

Polyamide 66

RTP Company

Technical Data

Product Description			
Value Product - Glass Fiber - Heat Stabilized			
General			
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized		
RoHS Compliance	• Contact Manufacturer		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.46	1.46 g/cm³	ASTM D792
Molding Shrinkage - Flow (0.126 in (3.20 mm))	1.0E-3 to 4.0E-3 in/in	0.10 to 0.40 %	ASTM D955
Moisture Content	0.20 %	0.20 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.70E+6 psi	11700 MPa	ASTM D638
Tensile Strength	25000 psi	172 MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0 %	2.0 to 4.0 %	ASTM D638
Flexural Modulus	1.70E+6 psi	11700 MPa	ASTM D790
Flexural Strength	38500 psi	265 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.126 in (3.20 mm))	1.8 ft·lb/in	96 J/m	ASTM D256
Unnotched Izod Impact (0.126 in (3.20 mm))	16 ft·lb/in	850 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	470 °F	243 °C	ASTM D648
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating 0.0591 in (1.50 mm), Values per RTP Company testing.	HB	HB	UL 94
Additional Information	Nominal Value (English)	Nominal Value (SI)	
Primary Additive	40 %	40 %	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	175 °F	79.4 °C	
Drying Time	4.0 hr	4.0 hr	
Dew Point	0.00 °F	-17.8 °C	
Processing (Melt) Temp	530 to 570 °F	277 to 299 °C	
Mold Temperature	150 to 225 °F	65.6 to 107 °C	
Injection Pressure	10000 to 18000 psi	68.9 to 124 MPa	
Injection Notes			
Desiccant Type Dryer Required.			