RTP 280.5 TFE 13 SI 2

Polyamide 66

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

General Information			
Filler / Reinforcement	Carbon Fiber,5.0% Filler by Weight		
Additive	PTFE Lubricant (13%) Silicone Lubricant (2%)		
Features	Lubricated		
RoHS Compliance	Contact Manufacturer		
Appearance	Black Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.27	g/cm³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18 mm, Injection Molded	0.40	%	
6.35 mm, Injection Molded	0.50	%	
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	3450	MPa	ASTM D638
Tensile Strength	76.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	4.0	%	ASTM D638
Flexural Modulus (Injection Molded)	2760	MPa	ASTM D790
Flexural Strength (Injection Molded)	107	MPa	ASTM D790
Compressive Strength	90.0	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	210	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	690	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Injection Molded	232	°C	
1.8 MPa, Unannealed, Injection Molded	227	°C	
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+5	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Rear Temperature	274 to 293	°C	
Middle Temperature	274 to 293	°C	
Front Temperature	274 to 293	°C	
Mold Temperature	66.0 to 107	°C	
Injection Pressure	69.0 to 124	MPa	

Recommended distributors for this material

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