RTP 205 HS TFE 15

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	Glass fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%) heat stabilizer		
Features	Thermal Stability Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.49	g/cm³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.30	%	ASTM D955
6.35mm, injection molding	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	9650	MPa	ASTM D638
Tensile Strength	165	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	2.0	%	ASTM D638
Flexural Modulus (Injection Molded)	9650	MPa	ASTM D790
Flexural Strength (Injection Molded)	131	MPa	ASTM D790
Compressive Strength	131	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	85	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	243	°C	ASTM D648
1.8 MPa, unannealed, injection molded	238	°C	ASTM D648
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.52	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength [1]	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	HB		UL 94
Additional Information			
The value listed as Flammibility, UL 94, was tested in accordance with RTP Company methods.			
Injection	**Nominal Value**	**Unit**	
Rear Temperature	274 - 293	°C	
Middle Temperature	274 - 293	°C	
Front Temperature	274 - 293	°C	
Mold Temperature	66.0 - 107	°C	
Injection Pressure	83.0 - 124	MPa	
NOTE			
1.	Method A (short time)		

Recommended distributors for this material

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