RTP 682 FR HEC

Acrylonitrile Butadiene Styrene

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	Nickel plated carbon fiber, 15% filler by weight		
Features	Electromagnetic shielding (EMI) Electrostatic discharge protection Radio frequency shielding (RFI) Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.33	g/cm³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.20	%	ASTM D955
6.35mm, injection molding	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.19	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	7580	MPa	ASTM D638
Tensile Strength	45.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	1.5	%	ASTM D638
Flexural Modulus (Injection Molded)	6550	MPa	ASTM D790
Flexural Strength (Injection Molded)	72.0	MPa	ASTM D790
Compressive Strength	48.0	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	69	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	270	J/m	ASTM D4812

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, injection molded	110	°C	ASTM D648
1.8 MPa, unannealed, injection molded	104	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	10	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-0		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	199 - 232	°C	
Middle Temperature	199 - 232	°C	
Front Temperature	199 - 232	°C	
Mold Temperature	63.0 - 85.0	°C	
Injection Pressure	69.0 - 103	MPa	

Recommended distributors for this material

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