# RTP 685 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.

Nickel-plated carbon fiber, 30% f	iller by weight	
Electromagnetic shielding (EMI)		
Electrostatic discharge protectior	1	
Radio frequency shielding (RFI)		
Flame retardancy		
Contact manufacturer		
Black		
Natural color		
Particle		
Injection molding		
Nominal Value	Unit	Test Method
1.44	g/cm³	ASTM D792
		ASTM D955
0.10	%	ASTM D955
0.20	%	ASTM D955
0.16	%	ASTM D570
Nominal Value	Unit	Test Method
110		ASTM D785
Nominal Value	Unit	Test Method
10300	MPa	ASTM D638
52.0	MPa	ASTM D638
		ASTM D638
		ASTM D790
79.0	MPa	ASTM D790
55.0		ASTM D695
Nominal Value	Unit	Test Method
64	J/m	ASTM D256
		ASTM D4812
	Radio frequency shielding (RFI) Flame retardancy Contact manufacturer Black Natural color Particle Injection molding Particle Injection molding Nominal Value 1.44 0.10 0.20 0.16 0.20 0.16 0.20 0.16 Nominal Value 110 10300 52.0 1.0 1.0 9650 79.0	Radio frequency shielding (RFI)   Flame retardancy   Contact manufacturer   Black   Natural color   Particle   Injection molding   Nominal Value Unit   0.10 %   0.20 %   0.10 %   0.10 %   0.10 %   0.10 %   0.10 %   0.10 %   0.10 %   1.0 %   1.0 %   1.0 MPa   52.0 MPa   79.0 MPa   79.0 MPa   55.0 MPa   64 J/m

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, injection molded	116	°C	ASTM D648
1.8 MPa, unannealed, injection molded	110	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0	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	

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#### Recommended distributors for this material

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