

RTP 685 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 graphite fiber, 30% filler by weight		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	210	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	107	°C	ASTM D648
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 1mil/in.Shielding Effectiveness, ASTM D-4935: 40+dB			
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.10	%	
Suggested Max Regrind	20	%	
Rear Temperature	216 - 288	°C	
Middle Temperature	216 - 288	°C	
Front Temperature	216 - 288	°C	
Mold Temperature	66.0 - 93.0	°C	
Injection Pressure	68.9 - 103	MPa	
Back Pressure	0.345	MPa	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

