

RTP 660.5

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.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Stainless steel fiber, 5.0% filler by weight		
Features	Electromagnetic shielding (EMI)		
	Antistatic property		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength	35.9	MPa	ASTM D638
Tensile Elongation (Break)	7.5	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	55.2	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)	320	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	107	°C	ASTM D648
1.8 MPa, not annealed	104	°C	ASTM D648
CLTE - Flow	8.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+10	ohms	ASTM D257
Volume Resistivity	1.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 6mil/in.Tensile Elongation, ASTM D-638: 6-9%Shielding Effectiveness, ASTM D-4935: 20+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

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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

