RTP 300 AR 15 TFE 10

Polycarbonate

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.
RTP 300 AR TFE Series are aramid fiber reinforced and PTFE lubricated polycarbonate composites. These materials are designed for exceptional wear and abrasion resistance.

General Information			
Filler / Reinforcement	Aramid fiber, 15% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Good wear resistance Good wear resistance Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.29	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3650	MPa	ASTM D638
Tensile Strength (Yield)	64.1	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength (Yield)	96.5	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)	430	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	143	°C	ASTM D648
1.8 MPa, not annealed	138	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	HB		UL 94
Additional Information			
Molding shrinkage, Linear-flow, ASTM D955, 0.25in: 6mil/in			
Injection	Nominal Value	Unit	
Rear Temperature	288 - 343	°C	
Middle Temperature	288 - 343	°C	
Front Temperature	288 - 343	°C	
Mold Temperature	65.6 - 121	°C	
Injection Pressure	68.9 - 103	MPa	

Recommended distributors for this material

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