

RTP 301 FR HS UV

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.

General Information			
Additive	heat stabilizer		
	UV stabilizer		
	Flame retardancy		
Features	Good UV resistance		
	Thermal Stability		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ASTM D638
Tensile Strength	63.4	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	320	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1300	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	146	°C	ASTM D648

1.8 MPa, not annealed	141	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm, RTP Tested)	V-0		UL 94
Additional Information			
Molding shrinkage, Linear-flow, ASTM D955, 0.25in: 4mil/inElongation at break, ASTM D638: >6%			
Injection	Nominal Value	Unit	
Rear Temperature	260 - 302	°C	
Middle Temperature	260 - 302	°C	
Front Temperature	260 - 302	°C	
Mold Temperature	65.6 - 121	°C	
Injection Pressure	103 - 138	MPa	

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Recommended distributors for this material

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