

# RTP 4005 FR

Polyphthalamide

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.-  
The value listed as UL 94, was tested in accordance with RTP Company test methods.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Flame retardancy		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.668	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ASTM D638
Tensile Strength	155	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	217	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)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	249	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm, RTP Tested)	V-0		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 5mil/in.			
Injection	Nominal Value	Unit	
Rear Temperature	307 - 343	°C	

Middle Temperature	307 - 343	°C
Front Temperature	307 - 343	°C
Mold Temperature	135 - 163	°C
Injection Pressure	68.9 - 124	MPa

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Recommended distributors for this material

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