RTP 4082 AR 15 TFE 15

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.-

General Information				
Filler / Reinforcement	Aramid fiber, 15% filler by weight			
	Carbon fiber reinforced material, 15% filler by weight			
Additive	PTFE lubricant (15%)			
Features	Lubrication			
RoHS Compliance	Contact manufacturer			
Appearance	Black			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.40	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	124		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	14500	МРа	ASTM D638	
Tensile Strength	172	MPa	ASTM D638	
Tensile Elongation (Break)	1.0	%	ASTM D638	
Flexural Modulus	13100	МРа	ASTM D790	
Flexural Strength	255	МРа	ASTM D790	
Coefficient of Friction (With Metal-Dynamic)	0.13		ASTM D1894	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.18 mm)	64	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			ASTM D648	
0.45 MPa, not annealed	271	°C	ASTM D648	
1.8 MPa, not annealed	260	°C	ASTM D648	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696	

Thermal Conductivity	0.40	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+4	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	НВ		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 3mil/in.Tensile Elongation, ASTM D638: 1-2%Wear Factor, K, ASTM D3702:

12E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D3702: 0.13The wear factor and coefficient of friction were both tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV, against C1018 steel of hardness 15-25 Rockwell C, 14-17 micro smoothness.

Injection	Nominal Value	Unit
Rear Temperature	304 - 343	°C
Middle Temperature	304 - 343	°C
Front Temperature	304 - 343	°C
Mold Temperature	121 - 163	°C
Injection Pressure	68.9 - 138	MPa

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