RTP 4081 AR 10 TFE 20 SI 2

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, 10% filler by weight			
	Carbon fiber reinforced material, 10% filler by weight			
Additive	PTFE lubricant (20%)			
	Silicone lubricant (2%)			
Features	Lubrication			
RoHS Compliance	Contact manufacturer			
Appearance	Black			
	Natural color			
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)	0.10	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.24	%	ASTM D570	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	10300	MPa	ASTM D638	
Tensile Strength	100	MPa	ASTM D638	
Tensile Elongation (Break)	1.0	%	ASTM D638	
Flexural Modulus	7580	MPa	ASTM D790	
Flexural Strength	169	MPa	ASTM D790	
Coefficient of Friction (With Metal-Dynamic)	0.15		ASTM D1894	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256	
Unnotched Izod Impact (3.18 mm)	270	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	

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 2mil/in.Wear Factor, K, ASTM D3702: 13E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D3702: 0.15The 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	°
Mold Temperature	93.3 - 163	°
Injection Pressure	68.9 - 138	MPa

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