RTP 4003 AR 10

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	Glass fiber reinforced material, 20% filler by weight			
	Aramid fiber, 10% filler by weight			
Factures	Cood was resistance			
Features	Good wear resistance			
RoHS Compliance	Contact manufacturer			
Appearance	Black			
	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.37	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.24	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	124		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	13800	МРа	ASTM D638	
Tensile Strength	145	МРа	ASTM D638	
Tensile Elongation (Break)	1.0	%	ASTM D638	
Flexural Modulus	8410	MPa	ASTM D790	
Flexural Strength	186	MPa	ASTM D790	
Compressive Strength	145	MPa	ASTM D695	
Coefficient of Friction			ASTM D1894	
With Metal-Dynamic	0.19		ASTM D1894	
With metal-static	0.22		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)	750	J/m	ASTM D4812	
Thermal	Nominal Value	Unit	Test Method	

Deflection Temperature Under Load (1.8 MPa, Unannealed)	238	°C	ASTM D648
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.20		ASTM D150
Dissipation Factor (1 MHz)	0.017		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	НВ		UL 94
Additional Information			

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 5mil/in.Tensile Elongation, ASTM D638: 1-2%Wear Factor, K, ASTM D3702: 55E-10in³/min/ft/lb/hrCoefficient of Friction, Static, ASTM D3702: 0.22Coefficient of Friction, Dynamic, ASTM D3702: 0.19The 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	93.3 - 149	°C
Injection Pressure	68.9 - 138	MPa

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



......