RTP 4082 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	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	1.37	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.23	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength	145	MPa	ASTM D638
Tensile Elongation (Break)	1.2	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	259	MPa	ASTM D790
Coefficient of Friction (With Metal-Dynamic)	0.18		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	254	°C	ASTM D648
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 2mil/in.Wear Factor, K, ASTM D3702: 25E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D3702: 0.18The 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 - 149	°C
Injection Pressure	68.9 - 138	MPa

Recommended distributors for this material

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