

RTP 3183

Perfluoroalkoxy
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, 20% filler by weight		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.06	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	34.5	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	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	204	°C	ASTM D648
1.8 MPa, not annealed	149	°C	ASTM D648
CLTE - Flow	8.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.55	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	10	ohms · cm	ASTM D257
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/in.			
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	2.0 - 4.0	hr
Suggested Max Regrind	20	%
Rear Temperature	343 - 416	°C
Middle Temperature	343 - 416	°C
Front Temperature	343 - 416	°C
Mold Temperature	121 - 232	°C
Injection Pressure	55.2 - 82.7	MPa
Back Pressure	0.172 - 0.345	MPa
Clamp Tonnage	6.9 - 11	kN/cm ²

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Recommended distributors for this material

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