

RTP 3281

Ethylene Tetrafluoroethylene Copolymer

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.-
RTP 3281 is a 10% carbon fiber reinforcement ethylene tetrafluoroethylene. This product exhibits excellent heat and chemical resistance along with good wear properties.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Features	Good chemical resistance		
	Good wear resistance		
	Heat resistance, medium		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	60.7	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	290	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	850	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	199	°C	ASTM D648
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 8mil/in.			
Injection	Nominal Value	Unit	

Drying Temperature	121	°C
Drying Time	2.0	hr
Suggested Max Regrind	20	%
Rear Temperature	282 - 360	°C
Middle Temperature	282 - 360	°C
Front Temperature	282 - 360	°C
Mold Temperature	65.6 - 149	°C
Injection Pressure	68.9 - 103	MPa
Clamp Tonnage	5.5 - 11	kN/cm ²

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Recommended distributors for this material

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