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Product Data Sheet &
General Processing Conditions

RTP 2283 HF TFE 15
Polyetheretherketone (PEEK)
Carbon Fiber
PTFE Lubricated

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.45	1.45	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0005 - 0.0020 in/in	0.05 - 0.20 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.2 ft-lbs/in	64 J/m	D 256
unnotched 1/8 in (3.2 mm) section	11.0 ft-lbs/in	587 J/m	D 4812
Tensile Strength	30000 psi	207 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	2.80 x 10^6 psi	19306 MPa	D 638
Flexural Strength	43000 psi	296 MPa	D 790
Flexural Modulus	2.55 x 10^6 psi	17582 MPa	D 790
ELECTRICAL			
Volume Resistivity	1E2 - 1E4 ohm.cm	1E2 - 1E4 ohm.cm	D 257
THERMAL			
Deflection Temperature			
@ 264 psi (1820 kPa)	> 572 °F	> 300 °C	D 648
VICAT Softening Temperature			
120 Â°C/h, 50 N	> 572 °F	> 300 °C	D 1525
Ignition Resistance*			
Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
Coefficient of Linear Thermal Expansion			
Flow Direction	0.4 x 10^{-5}/°F	0.8 x 10^{-5}/°C	E 831
Transverse Direction	2.5 x 10^{-5}/°F	4.5 x 10^{-5}/°C	E 831
Thermal Conductivity			
Through-plane	2.60 (BTU.in)/(hr.ft².°F)	0.37 W/(m.K)	E 1530

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.
Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.
* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.
** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	12000 - 18000 psi	83 - 124 MPa
Melt Temperature	660 - 750 °F	349 - 399 °C
Mold Temperature	325 - 425 °F	163 - 218 °C

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Drying	s @ 300 °F	3 hrs @ 149 °C
Moisture Content	0.10 %	0.10 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.