



Product Data Sheet & General Processing Conditions

RTP 2200 HF TFE 5 Polyetheretherketone (PEEK) PTFE Lubricated High Flow

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	5 %	5 %	
Specific Gravity	1.32	1.32	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0100 in/in	1.00 %	D 955
Water Absorption, 24 hrs @ 23°C	0.150 %	0.150 %	D 570

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	15.0 ft-lbs/in	801 J/m	D 4812
Tensile Strength	13000 psi	90 MPa	D 638
Tensile Elongation	9.0 %	9.0 %	D 638
Tensile Modulus	0.60 x 10 ⁶ psi	4137 MPa	D 638
Flexural Strength	17500 psi	121 MPa	D 790
Flexural Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	400 VPM	15.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.5	3.5	D 150
Dissipation Factor, 1 MHz, Dry	0.0040	0.0040	D 150
Arc Resistance	40 s	40 s	D 495

THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	340 °F	171 °C	D 648
Ignition Resistance*			
Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
Coefficient of Linear Thermal Expansion			
Flow Direction	3.0 x 10 ⁻⁵ /°F	5.4 x 10 ⁻⁵ /°C	E 831

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

PROCESSING NOTES