Product Data Sheet &
General Processing Conditions

RTP 2299 X 53538
Polyetheretherketone (PEEK)
Carbon Fiber
Ablative Compound

RTP Company's ablative compounds are formulated to develop a char when exposed to an open flame. The char acts as an insulating layer and reduces the damage and deformation to the material.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.56	1.56	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0015 in/in	0.15 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	43 J/m	D 256
unnotched 1/8 in (3.2 mm) section	9.0 ft-lbs/in	481 J/m	D 4812
Tensile Strength	25000 psi	172 MPa	D 638
Tensile Elongation	1.5 %	1.5 %	D 638
Tensile Modulus	2.40 x 10^6 psi	16548 MPa	D 638
Flexural Strength	36500 psi	252 MPa	D 790
Flexural Modulus	2.10 x 10^6 psi	14480 MPa	D 790
ELECTRICAL			
Volume Resistivity	< 1E7 ohm.cm	< 1E7 ohm.cm	D 257
THERMAL			
Ignition Resistance*			
Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801

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

Desiccant Type Dryer Required.