



Product Data Sheet & General Processing Conditions

RTP 2285 A Polyetherketone (PEK) Carbon Fiber

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.41	1.41	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0005 in/in	0.05 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	14.0 ft-lbs/in	747 J/m	D 4812
Tensile Strength	38000 psi	262 MPa	D 638
Tensile Elongation	1.6 %	1.6 %	D 638
Tensile Modulus	3.80 x 10 ⁶ psi	26201 MPa	D 638
Flexural Strength	55000 psi	379 MPa	D 790
Flexural Modulus	3.60 x 10 ⁶ psi	24822 MPa	D 790

ELECTRICAL

Volume Resistivity	< 1E5 ohm.cm	< 1E5 ohm.cm	D 257
--------------------	--------------	--------------	-------

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	> 600 °F	> 316 °C	D 648
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	10000 - 20000 psi	69 - 138 MPa
Melt Temperature	725 - 775 °F	385 - 413 °C
Mold Temperature	355 - 425 °F	179 - 218 °C
Drying	2 hrs @ 355 °F	2 hrs @ 179 °C
Moisture Content	0.10 %	0.10 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.