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Ponciplastics.com



**Product Data Sheet &
General Processing Conditions**

**RTP 1381 C AR 12
Polyphenylene Sulfide (PPS)
Carbon Fiber
Aramid Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.39	1.39	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955
Water Absorption, 24 hrs @ 23°C	0.020 %	0.020 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.7 ft-lbs/in	37 J/m	D 256
unnotched 1/8 in (3.2 mm) section	5.0 ft-lbs/in	267 J/m	D 4812
Tensile Strength	17000 psi	117 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.50 x 10 ⁶ psi	10342 MPa	D 638
Flexural Strength	24000 psi	165 MPa	D 790
Flexural Modulus	1.40 x 10 ⁶ psi	9653 MPa	D 790

ELECTRICAL

Volume Resistivity	1E2 - 1E4 ohm.cm	1E2 - 1E4 ohm.cm	D 257
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THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	> 450 °F	> 232 °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.