

(+) 18816996168

Ponciplastics.com



**Product Data Sheet &
General Processing Conditions**

RTP PA66 20 GF FR0 BLK
Nylon 6/6 (PA)
Value Product
Glass Fiber
Flame Retardant
Non-PBDE/PBB
UL94


PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.60	1.60	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0020 - 0.0035 in/in	0.20 - 0.35 %	D 955
Water Absorption, 24 hrs @ 23°C	0.700 %	0.700 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.4 ft-lbs/in	77 J/m	D 256
unnotched 1/8 in (3.2 mm) section	12.5 ft-lbs/in	667 J/m	D 4812
Tensile Strength	18500 psi	128 MPa	D 638
Tensile Elongation	2.0 - 4.0 %	2.0 - 4.0 %	D 638
Tensile Modulus	1.30 x 10 ⁶ psi	8964 MPa	D 638
Flexural Strength	28500 psi	197 MPa	D 790
Flexural Modulus	1.20 x 10 ⁶ psi	8274 MPa	D 790
Hardness			
Rockwell, R	116	116	D 785

ELECTRICAL

Dielectric Strength, S/T, in oil	475 VPM	18.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.8	3.8	D 150
Dissipation Factor, 1 MHz, Dry	0.0150	0.0150	D 150
Volume Resistivity	> 1E14 ohm.cm	> 1E14 ohm.cm	D 257

THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	430 °F	221 °C	D 648
@ 66 psi (455 kPa)	465 °F	241 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94
Limiting Oxygen Index	34.0 %	34.00 %	D 2863

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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 18000 psi	69 - 124 MPa
Melt Temperature	530 - 570 °F	277 - 299 °C

Mold Temperature
Drying
Moisture Content
Dew Point

0 - 225 °F
4 hrs @ 175 °F
0.20 %
0 °F

66 - 107 °C
4 hrs @ 79 °C
0.20 %
-18 °C

PROCESSING NOTES

Desiccant Type Dryer Required.