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Ponciplastics.com



**Product Data Sheet &
General Processing Conditions**

**RTP PA6 HI 40 GF BLK
Nylon 6 (PA)
Value Product
Glass Fiber
Impact Modified
Heat Stabilized**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	40 %	40 %	
Specific Gravity	1.41	1.41	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0030 in/in	0.10 - 0.30 %	D 955

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	3.2 ft-lbs/in	171 J/m	D 256
unnotched 1/8 in (3.2 mm) section	22.0 ft-lbs/in	1175 J/m	D 4812
Tensile Strength	18500 psi	128 MPa	D 638
Tensile Elongation	3.0 - 6.0 %	3.0 - 6.0 %	D 638
Tensile Modulus	1.35 x 10 ⁶ psi	9308 MPa	D 638
Flexural Strength	30000 psi	207 MPa	D 790
Flexural Modulus	1.20 x 10 ⁶ psi	8274 MPa	D 790

THERMAL

Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

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 - 15000 psi	69 - 103 MPa
Melt Temperature	470 - 535 °F	243 - 279 °C
Mold Temperature	130 - 200 °F	54 - 93 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C

PROCESSING NOTES

Desiccant Type Dryer Required.