

Product Data Sheet & General Processing Conditions

RTP 4099 X 94115
Polyphthalamide (PPA)
Impact Modified
Glass Fiber
Heat Stabilized

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

			ASTM
PERMANENCE	English	SI Metric	TEST
Primary Additive	15 %	15 %	
Specific Gravity	1.20	1.20	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0040 - 0.0070 in/in	0.40 - 0.70 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	3.5 ft-lbs/in	187 J/m	D 256
unnotched 1/8 in (3.2 mm) section	14.0 ft-lbs/in	747 J/m	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	4.0 - 6.0 %	4.0 - 6.0 %	D 638
Tensile Modulus	0.60 x 10^6 psi	4137 MPa	D 638
Flexural Strength	17000 psi	117 MPa	D 790
Flexural Modulus	0.60 x 10^6 psi	4137 MPa	D 790
THERMAL			
Deflection Temperature			
@ 264 psi (1820 kPa)	322 °F	161 °C	D 648
@ 66 psi (455 kPa)	519 °F	271 °C	D 648

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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric	
Injection Pressure	10000 - 18000 psi	69 - 124 MPa	
Melt Temperature	550 - 575 °F	288 - 302 °C	
Mold Temperature	250 - 300 °F	121 - 149 °C	
Drying	4 - 6 hrs @ 225 °F	4 - 6 hrs @ 107 °C	
Moisture Content	0.05 %	0.05 %	
Dew Point	-25 °F	-32 °C	
PROCESSING NOTES			

Desiccant Type Dryer Required.

26 Jun 2019 MAB

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

No information supplied by RTP Company constitutes a warranty regarding product performance or use. Any information regarding performance or use is

only offered as suggestion for investigation for use, based upon RTP Company or other customer experience. RTP Company makes no warranties, expressed or implied, concerning the suitability or fitness of any of its products for any particular purpose. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use. The disclosure of information herein is not a license to operate under, or a recommendation to infringe any patents.

RTP COMPANY • 580 EAST FRONT STREET • WINONA, MN 55987 • 507-454-6900