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Ponciplastics.com



Product Data Sheet & General Processing Conditions

RTP 178 HB
Polypropylene (PP)
Glass Fiber
Mineral
Chemically Coupled
UL94 HB


RTP 178 HB has been developed to combine good physical properties and moldability for use in applications where straight glass or mineral filled polypropylenes will not suffice.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.15	1.15	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0040 - 0.0080 in/in	0.40 - 0.80 %	D 955
Water Absorption, 24 hrs @ 23°C	0.030 %	0.030 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	7000 psi	48 MPa	D 638
Tensile Elongation	4.0 - 6.0 %	4.0 - 6.0 %	D 638
Tensile Modulus	0.55 x 10 ⁶ psi	3792 MPa	D 638
Flexural Strength	12000 psi	83 MPa	D 790
Flexural Modulus	0.55 x 10 ⁶ psi	3792 MPa	D 790

THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	280 °F	138 °C	D 648
@ 66 psi (455 kPa)	310 °F	154 °C	D 648
Ignition Resistance*			
Flammability	HB @ 1/16 in	HB @ 1.5 mm	UL94

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 - 15000 psi	69 - 103 MPa
Melt Temperature	375 - 450 °F	191 - 232 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C