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Product Data Sheet & General Processing Conditions

RTP 506 HB
Styrene Acrylonitrile (SAN)
Glass Fiber
UL94 HB


The RTP 500 series of glass fiber reinforced SAN materials offers improved strengths over the base resin. This series has an excellent balance of properties and is one of the most cost effective RTP Company series.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	35 %	35 %	
Specific Gravity	1.35	1.35	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0005 - 0.0015 in/in	0.05 - 0.15 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.9 ft-lbs/in	48 J/m	D 256
unnotched 1/8 in (3.2 mm) section	4.5 ft-lbs/in	240 J/m	D 4812
Tensile Strength	17500 psi	121 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.75 x 10 ⁶ psi	12066 MPa	D 638
Flexural Strength	24000 psi	165 MPa	D 790
Flexural Modulus	1.60 x 10 ⁶ psi	11032 MPa	D 790
Hardness Rockwell, R	123	123	D 785

THERMAL

Ignition Resistance* Flammability	HB @ 1/16 in	HB @ 1.5 mm	UL94
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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	460 - 535 °F	238 - 279 °C
Mold Temperature	125 - 180 °F	52 - 82 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C

PROCESSING NOTES

Desiccant Type Dryer Required.