



**Product Data Sheet &
General Processing Conditions**

**RTP 1500.5-55D
Polyether-Ester Block Copolymer
(TEEE/COPE)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	5 %	5 %	
Specific Gravity	1.22	1.22	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0050 - 0.0090 in/in	0.50 - 0.90 %	D 955
Water Absorption, 24 hrs @ 23°C	0.400 %	0.400 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	7.8 ft-lbs/in	416 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.6 ft-lbs/in	566 J/m	D 4812
Tensile Strength	4145 psi	29 MPa	D 638
Tensile Elongation	500.0 %	500.0 %	D 638
Tensile Modulus	0.08 x 10 ⁶ psi	552 MPa	D 638
Flexural Strength	2570 psi	18 MPa	D 790
Flexural Modulus	0.06 x 10 ⁶ psi	414 MPa	D 790
Hardness			
Shore D, instantaneous	55	55	D 2240

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 - 15000 psi	69 - 103 MPa
Melt Temperature	410 - 460 °F	210 - 238 °C
Mold Temperature	70 - 100 °F	21 - 38 °C
Drying	2 - 4 hrs @ 220 °F	2 - 4 hrs @ 104 °C
Moisture Content	< 0.10 %	< 0.10 %

PROCESSING NOTES

Desiccant Type Dryer Required.

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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.

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