

(+) 18816996168

Ponciplastics.com



**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**

| <b>PERMANENCE</b>               | <b>English</b>        | <b>SI Metric</b> | <b>ASTM<br/>TEST</b> |
|---------------------------------|-----------------------|------------------|----------------------|
| 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 <sup>6</sup> psi | 552 MPa | D 638  |
| Flexural Strength                 | 2570 psi                   | 18 MPa  | D 790  |
| Flexural Modulus                  | 0.06 x 10 <sup>6</sup> 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**

|                    | <b>English</b>     | <b>SI Metric</b>   |
|--------------------|--------------------|--------------------|
| 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.