



## Product Data Sheet & General Processing Conditions

### RTP 2105 UP Polyetherimide (PEI) Glass Fiber Ultra Performance

#### PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE       |                        | STANDARD |
|------------------|------------------------|----------|
| Primary Additive | 30 %                   |          |
| Density          | 1.50 g/cm <sup>3</sup> | ISO 1183 |

  

| MECHANICAL                |                      |            |
|---------------------------|----------------------|------------|
| Impact Strength, Izod     |                      |            |
| Notched, 4 mm thickness   | 8 kJ/m <sup>2</sup>  | ISO 180/1A |
| Unnotched, 4 mm thickness | 40 kJ/m <sup>2</sup> | ISO 180/1U |
| Tensile Strength          | 190 MPa              | ISO 527    |
| Tensile Elongation        | 2.5 %                | ISO 527    |
| Tensile Modulus           | 11500 MPa            | ISO 527    |
| Flexural Strength         | 255 MPa              | ISO 178    |
| Flexural Modulus          | 10500 MPa            | ISO 178    |

#### 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

|                    |                |
|--------------------|----------------|
| Injection Pressure | 80 - 125 MPa   |
| Injection Pressure | 820 - 1240 bar |
| Melt Temperature   | 355 - 400 °C   |
| Mold Temperature   | 135 - 175 °C   |
| Drying             | 4 hrs @ 150 °C |
| Moisture Content   | 0.04 %         |
| Dew Point          | -30 °C         |

#### PROCESSING NOTES

Desiccant Type Dryer Required.

30 Oct 2013 BLM

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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