

# RTP 4087 UP

Polyphthalamide

RTP Company

## Message:

"Warning: The status of this material is 'Commercial: Limited Issue'

The data for this material has not been recently verified.

Please contact RTP Company for current information prior to specifying this grade."

| General Information  |  |                   |             |
|--|--|-------------------|-------------|
| Filler / Reinforcement   | Carbon fiber reinforced material, 40% filler by weight |                   |             |
| Processing Method  | Injection molding                                      |                   |             |
| Physical   | Nominal Value  | Unit              | Test Method |
| Density  | 1.39   | g/cm <sup>3</sup> | ISO 1183    |
| Moisture Content   | 0.050  | %                 |             |
| Primary Additive   | 40   | %                 |             |
| Mechanical   | Nominal Value  | Unit              | Test Method |
| Tensile Modulus (Injection Molded)   | 41500  | MPa               | ISO 527-2   |
| Tensile Stress   | 360  | MPa               | ISO 527-2   |
| Tensile Strain (Yield, Injection Molded)   | 1.4  | %                 | ISO 527-2   |
| Flexural Modulus (Injection Molded)  | 34500  | MPa               | ISO 178     |
| Flexural Stress (Injection Molded)   | 580  | MPa               | ISO 178     |
| Impact   | Nominal Value  | Unit              | Test Method |
| Notched Izod Impact <sup>1</sup> (Injection Molded)  | 9.0  | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength <sup>2</sup> (Injection Molded)   | 80   | kJ/m <sup>2</sup> | ISO 180/1U  |
| Additional Information   | Nominal Value  | Unit              |             |
| Data listed is for natural or black colored materials. Pigments can affect properties.Desiccant Type Dryer Required. |  |                   |             |
| Injection  | Nominal Value  | Unit              |             |
| Drying Temperature - Desiccant Dryer   | 105  | °C                |             |
| Drying Time - Desiccant Dryer  | 4.0 - 6.0  | hr                |             |
| Dew Point  | -30.0  | °C                |             |
| Processing (Melt) Temp   | 300 - 330  | °C                |             |
| Mold Temperature   | 135 - 160  | °C                |             |
| Injection Pressure   | 70.0 - 125   | MPa               |             |
| NOTE   |  |                   |             |
| 1.   | 4mm thickness  |                   |             |
| 2.   | 4mm thickness  |                   |             |

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