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Product Data Sheet & General Processing Conditions

RTP 4087 UP Polyphthalamide (PPA) Carbon Fiber Ultra Performance

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE		STANDARD
Primary Additive	40 %	
Density	1.38 g/cm ³	ISO 1183
MECHANICAL		
Impact Strength, Izod		
Notched, 4 mm thickness	7 kJ/m ²	ISO 180/1A
Unnotched, 4 mm thickness	80 kJ/m ²	ISO 180/1U
Tensile Strength	360 MPa	ISO 527
Tensile Elongation	1.4 %	ISO 527
Tensile Modulus	41500 MPa	ISO 527
Flexural Strength	580 MPa	ISO 178
Flexural Modulus	34500 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	70 - 125 MPa
Injection Pressure	680 - 1240 bar
Melt Temperature	300 - 330 °C
Mold Temperature	135 - 160 °C
Drying	4 - 6 hrs @ 105 °C
Moisture Content	0.05 %
Dew Point	-30 °C

PROCESSING NOTES

Desiccant Type Dryer Required.