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Product Data Sheet & General Processing Conditions

RTP 2299 X 57352 A
Polyetheretherketone (PEEK)
Carbon Fiber
Graphite Lubricated
PTFE Lubricated
Preliminary Datasheet

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	STANDARD	
Density	1.48 g/cm ³	ISO 1183
Shrinkage, 4 mm Thickness		
Flow direction	0.10 - 0.30 %	ASTM D 955
MECHANICAL		
Impact Strength, Izod		
Notched, 4 mm thickness	7 kJ/m ²	ISO 180/1A
Unnotched, 4 mm thickness	32 kJ/m ²	ISO 180/1U
Tensile Strength	160 MPa	ISO 527
Tensile Elongation	1.5 - 2.5 %	ISO 527
Tensile Modulus	14000 MPa	ISO 527
Flexural Strength	230 MPa	ISO 178
Flexural Modulus	11500 MPa	ISO 178
THERMAL		
Heat Deflection Temperature		
@ 1.80 MPa	> 280 °C	ISO 75

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	350 - 400 °C
Mold Temperature	160 - 220 °C
Drying	3 hrs @ 150 °C
Moisture Content	0.10 %
Dew Point	-30 °C

PROCESSING NOTES

Desiccant Type Dryer Required.