

(+) 18816996168

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Product Data Sheet & General Processing Conditions

VLF 82109 Polyetherimide (PEI) Long Glass Fiber

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE		STANDARD
Primary Additive	50 %	
Density	1.68 g/cm ³	ISO 1183
MECHANICAL		
Impact Strength, Izod		
Notched, 4 mm thickness	20 kJ/m ²	ISO 180/1A
Tensile Strength	195 MPa	ISO 527
Tensile Elongation	1.0 %	ISO 527
Tensile Modulus	17000 MPa	ISO 527
Flexural Strength	290 MPa	ISO 178
Flexural Modulus	17000 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	350 - 380 °C
Mold Temperature	120 - 160 °C
Drying	4 hrs @ 135 °C
Moisture Content	0.02 %
Dew Point	-30 °C

PROCESSING NOTES

Use a reverse barrel profile. To maximize fiber length, the following injection barrel, screw, and tip designs should be followed. L/D ratio 16/1 - 22/1, Compression ratio 2:1, Flight depth 5 mm minimum, in feed section, Screw diameter 16.5 - 20 mm minimum, Compression section length 12 - 13 diameters, Check ring valve assembly - free flow type no restrictions, Nozzle orifice 6 mm diameter. Feed throat from hopper to machine must have sufficient opening to prevent bridging of long pellet composition. Desiccant Type Dryer Required.