



GIMIDE™ 7220GF

Product Details:

Ultra high-performance thermoplastic polymer with 20% Glass fiber filled, suitable for injection molding, easy flow.

Application Areas:

Various applications in Automotive, Building and Construction, Consumer, Electrical and Electronics, Hygiene and Healthcare, Industrial, Mass Transportation, and Packaging Industry.

General Properties

Property	Typical Values	Unit	Test Method / Conditions
Density	1.43	g/cc	23°C
MFR/MVR (337°C @ 5kgs Load)	5	g/10min	ASTM D 1238

Thermal Properties

Glass Transition Temperature (Tg)	217	°C	ASTM D 3418
Heat Deflection Temperature (HDT)	210	°C	ASTM D 648 /1.8 MPa
Continuous Use Temperature (Expected)	190	°C	UL 746B

Mechanical Properties at 23°C

Tensile Strength	156	MPa	ASTM D 638
Tensile Modulus	8.5	GPa	ASTM D 638
Elongation at Break	4	%	ASTM D 638
Flexural Strength	239	MPa	ASTM D 790
Flexural Modulus	8.3	GPa	ASTM D 790
Izod Impact Strength (Notched)	94	J/m	ASTM D 256
Izod Impact Strength (Un-notched)	799 (B)	J/m	ASTM D 256

Fire Properties

Flammability	V-0	UL 94/0.8 mm
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Recommended Processing Conditions

Drying Temperature/Time	4-6 hrs at 150°C
Temperature Settings	350 - 400°C
Nozzle Temperature	345 – 400 °C
Hopper / Throat Temperature	80 – 120°C
Mold Temperature	135 – 165°C

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