



Document	ISO Datasheet
Description	PP LGF 40
Grade	ISOGLASS LFT 1001H NA
Code	
Application	Automotive / Injection moulding

50% chemically coupled long glass fiber reinforced polypropylene compound with very high mechanical properties and heat stabilized. Natural grade.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm ³	1,32
Filler Content (1h/600°C)	ISO 3541	%	50
Mould Shrinkage flow (%)	INTERNAL	%	0,1– 0,3
Thermal			
HDT, A (1.80 MPa)	ISO 75/Ae	°C	> 155
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	11500
Flexural Modulus (80°C - 2 mm/min)	ISO 178	MPa	7500
Flexural Modulus (120°C - 2 mm/min)	ISO 178	MPa	6100
Flexural strength (23°C - 2 mm/min)	ISO 178	MPa	210
Flexural strength (80°C - 2 mm/min)	ISO 178	MPa	115
Flexural strength (120°C - 2 mm/min)	ISO 178	MPa	70
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	11300
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	7300
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	6100
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	140
Tensile stress at yield (80°C - 5 mm/min)	ISO 527-2	MPa	95
Tensile stress at yield (120°C - 5 mm/min)	ISO 527-2	MPa	65
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	1,5
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	30
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	38
Charpy notched impact strength (-30°C)	ISO 179/1eA	KJ/m ²	42
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m ²	60

Charpy unnotched impact strength (-30°C)	ISO 179/1eU	KJ/m ²	55
Flammability Class			
Flammability class	UL94		HB
Regulations compliance			
RoHS compliance status	COMPLIANT		
EN71			
UL listed file n ^o			
Water contact approvals			
Food contact status			

[§] Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 3.0 x 12.7 x 127 mm sample.

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