

Technical Data Sheet

GLASS FILLED POLYAMIDES

Molding of engineering- and general purpose articles



Glass filled polyamide is a composite material consisting of polyamide reinforced with glass fiber as filler, which ensures high level of mechanical, thermal, and other important performance characteristics of the material.

Typical application: glass filled polyamides are intended for injection molding or extrusion of engineering-, electrotechnical-, and general-

technical purpose articles with increased heat resistance and mechanical behavior.

Physical and mechanical properties

Property	Unit	PA 6-210-DS		PA 6-211-DS	
		superior grade	first grade	superior grade	first grade
Ultimate flexural strength	MPa (kgf/cm ²)	≥250 (2550)	≥200 (2040)	≥260 (2650)	≥245 (2500)
Tensile strength	MPa (kgf/cm ²)	≥170 (1730)	≥130 (1325)	≥180 (1835)	≥150 (1529)
Impact viscosity, min	kJ/m ² (kgf·cm/cm ²)	≥60 (61)	≥35 (35.7)	≥60 (61)	≥44 (45)
Specific electrical resistivity					
surface	Ohm	≥10 ¹⁴	≥5x10 ¹³	≥1x10 ¹⁴	≥1x10 ¹³
volume	Ohm·cm	≥10 ¹⁵	≥5x10 ¹³	≥1x10 ¹⁵	≥1x10 ¹⁴
Dielectric strength	kV/mm	≥23	≥20	≥23	≥20
Bending temperature under load	°C	≥200	≥185	≥200	≥190
Mass fraction of filler	%	23-33	27-33	30-34	30-34
Mold shrinkage	%	0.45	0.45	0.4-0.6	0.4-0.6

Manufacture of the material with other physical and mechanical properties is accepted upon agreeing about with a consumer.

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Advantages: glass-filled polyamide articles substitute for metals, thermosetting materials or pricier thermoplastics.

Package:

Glass filled polyamide may be packaged in:

- plastic bags as per GOST 17811 or in multi-layer paper bags as per GOST 2226.
- valved woven polypropylene sacks with polyethylene lining (TU 2297-002-05749234).

Regulatory documents:

- GOST 17648-83



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