EVONIK
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Product Information

VESTAMID® HT*plus* M1035
Glass-fiber reinforced polyphthalamide compound for injection molding

VESTAMID HT*plus* M1035 is a glass-fiber reinforced (50%), heat-stabilized polyphthalamide compound (PPA) for injection molding.

This compound is especially suitable for manufacturing parts subjected to high temperature.

VESTAMID HT*plus* M1035 is supplied as cylindrical pellets in polyethylene packaging.

Drying at 120°C for at least 4 hours before processing is recommended.

Property		Test method international	national	Unit	VESTAMID HT*plus* M1035
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm³	1.64
Tensile test Stress at break Strain at break		ISO 527-1 ISO 527-2	DIN EN ISO 527-1 DIN EN ISO 527-2	MPa %	250 2
Tensile modulus		ISO 527-1 ISO 527-2	DIN EN ISO 527-1 DIN EN ISO 527-2	MPa	19000
Flexural test Flexural strength		ISO 178	DIN EN ISO 178	MPa	360
Flexural modulus		ISO 178	DIN EN ISO 178	MPa	16000
CHARPY impact strength	23°C −40°C	ISO 179/1eU	DIN EN ISO 179/1eU	kJ/m² kJ/m²	65 C[1] 50 C[1]
CHARPY notched impact strength	23°C −40°C	ISO 179/1eA	DIN EN ISO 179/1eA	kJ/m² kJ/m²	12 C[1] 14 C[1]
Vicat softening temperature Method A Method B	10 N 50 N	ISO 306	DIN EN ISO 306	°C °C	313 289
Linear thermal expansion longitudinal transverse	20°C	ISO 11359	DIN 53752	$10^{-5}K^{-1}$ $10^{-5}K^{-1}$	2.74 2.29
Volume resistivity		IEC 60093	IEC 60093	Ohm · m	10^{15}
Spec. surface resistance		IEC 60093	IEC 60093	Ohm	10^{15}
Melting range DSC	2nd heating	ISO 11357		°C	300–315

Pigmentation may affect values.

[1]   C = Complete break, incl. hinge break H

The results shown have been generated from a low number of production lots. Therefore, they are preliminary and not yet the result of a statistical evaluation. Therefore they must not be used to establish specifications.

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