

Provisional Technical Information

VESTAMID® HT*plus* M1063 black



Carbon fiber-reinforced polyphthalamide compound

VESTAMID® HT*plus* M1063 black is a carbon fiber-reinforced (30%), polyphthalamide compound (PPA), exhibiting high stiffness.

This compound is for manufacturing parts subjected to high temperature.

VESTAMID® HT*plus* M1063 black is supplied as cylindrical pellets in polyethylene packaging.

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

We recommend a melt temperature between 310°C and 340°C. The mold temperature should be within a range of 140°C to 180°C.

Properties of VESTAMID® HT*plus* M1063 black

Properties		Test method	Unit	Value
Density	23°C	ISO 1183	g/cm ³	1.32
Tensile test		ISO 527-1		
Stress at break		ISO 527-2	MPa	240
Strain at break			%	1.2
Tensile modulus		ISO 527-1 ISO 527-2	MPa	24000
CHARPY impact strength		ISO 179/1eU		
	23°C		kJ/m ²	45 C ¹⁾
	-40°C		kJ/m ²	40 C ¹⁾
CHARPY notched impact strength		ISO 179/1eA		
	23°C		kJ/m ²	7 C ¹⁾
	-40°C		kJ/m ²	6.5 C ¹⁾
Surface resistance R _{0A}		IEC 60167	Ohm	1000
Temperature of deflection under load				
Method A	1.8 MPa	ISO 75-1	°C	282
Melting range		ISO 11357		
DSC	2 nd heating		°C	300-315

Pigmentation may affect values.

¹⁾ C = Complete break, incl. hinge break H

Evonik Industries AG