

VESTAMID® HTplus M1634

Technical DataSheet | Supplied by Evonik

VESTAMID® HTplus M1634 by Evonik is a stabilized polyphthalamide (PA6T/X) grade reinforced with 40% glass fiber. Exhibits medium viscosity, good dimensional stability and high rigidity. It is suitable for processing by injection molding. VESTAMID® HTplus M1634 is recommended for metal replacement, technical parts for the use at high service temperatures in automotive, electronics and machinery applications. Meets UL 94 HB flame rating and is approved for contact with drinking water.

Product Type	PA (Polyamide, Nylon) > PPA
Appearance	Natural, Black
Product Status	COMMERCIAL
Applications/ Recommended for	Engineering / manufacturing Electronics / Computers Automotive Injection molding - thermoplastics
Labels/Agency Rating	UL 94 HB flame rating
Key Features	Dimensional stability, Good Filled, Glass Fiber Rigidity, High Stability, Good Viscosity, Medium

VESTAMID® HTplus M1634 Properties

Mechanical	Value & Unit	Test Condition	Test Method
Tensile Modulus	14000 MPa		ISO 527-1/ -2
Tensile Strength	195 MPa	At 23°C	ISO 527
Tensile Strain	1.7 %	at Break	ISO 527
Impact Strength, Charpy	47 KJ/m ²	At 23°C, Complete break, incl. hinge break H	ISO 179/1eU

Impact Strength, Charpy	34 KJ/m ²	At -40°C, Complete break, incl. hinge break H	ISO 179/1eU
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Impact Strength, Notched Charpy	9 KJ/m ²	At 23°C, Complete break, incl. hinge break H	ISO 179/1eA
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Impact Strength, Notched Charpy	9 KJ/m ²	At -40°C, Complete break, incl. hinge break H	ISO 179/1eA
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Flammability	Value & Unit	Test Condition	Test Method
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Flame Rating, UL 94	HB		
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Thermal	Value & Unit	Test Condition	Test Method
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Vicat Softening Temperature	308 °C	10N	ISO 306
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Deflection Temperature at 1.8 MPa (264 psi)	290 °C		ISO 75/A
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Deflection Temperature at 0.46 MPa (66 psi)	305 °C		ISO 75/B
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Physical	Value & Unit	Test Condition	Test Method
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Density	1.54 g/cm ³	At 23°C	ISO 1183
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Water Absorption at Saturation	4.8 %	At 23°C	ISO 62
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Water Absorption	0.2 %	At 23°C, 50% R.H	ISO 62
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