

NILAMID® B3 HH KGF2515

Technical DataSheet | Supplied by Celanese

NILAMID® B3 HH KGF2515 by Celanese is a high heat stabilized polyamide6 (PA6) grade reinforced with 25% mineral and 15% glass fiber. Is suitable for processing by injection molding. NILAMID® B3 HH KGF2515 is used in car handle, air intake manifold and snowshoes.

Product Type	PA (Polyamide, Nylon) > PA 6 (Nylon 6)
Product Status	COMMERCIAL
Applications/ Recommended for	Sports & Leisures > Snowboards & Surfboards Injection molding - thermoplastics
Key Features	Filled, Glass Fiber Heat stabilized Filled, Mineral

NILAMID® B3 HH KGF2515 Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.5 g/cm ³	23°C	ISO 1183
Linear Mold Shrinkage	0.3 %	Parallel, 23°C	ISO 294-4
Linear Mold Shrinkage	0.7 %	Normal, 23°C	ISO 294-4
Moisture Absorption	0.9 %	23°C, 24 hr	ISO 62
Moisture Absorption	4.8 %	at Saturation	ISO 62

Mechanical	Value & Unit	Test Condition	Test Method
Impact Strength, Notched Izod	5.5 kJ/m ²	23°C	ISO 180/A

Impact Strength, Notched Charpy	4.5 kJ/m ²	-30°C	ISO179/1EA
Impact Strength, Notched Charpy	6 kJ/m ²	23°C	ISO179/1EA
Tensile Strength, Yield	135 MPa	23°C	ISO 572
Tensile Modulus	8200 MPa	23°C	ISO 527
Tensile Strain	3 %	at Break, 23°C	ISO 527
Impact Strength, Notched Izod	4.5 kJ/m ²	-30°C	ISO 180-1A
Impact Strength, Unnotched Charpy	40 kJ/m ²	23°C	ISO 179/1eU
Impact Strength, Unnotched Charpy	35 kJ/m ²	-30°C	ISO 179/1eU
Thermal			
	Value & Unit	Test Condition	Test Method
Maximum Service Temperature, Air	125 °C	20000h	IEC 60216
Heat Deflection Temperature (HDT)	220 °C	0.45N/mm ²	ISO 75
Heat Deflection Temperature (HDT)	192 °C	1.82N/mm ²	ISO 75
Electrical			
	Value & Unit	Test Condition	Test Method
Surface Resistivity	10 ¹² ohm	23°C	IEC 60093
Volume Resistivity	10 ¹³ ohm/m	23°C	IEC 60093

Comparative Tracking Index (CTI)	550 V	3.2mm, SOL.A	IEC 60112
Dielectric Strength	21 kV/mm	2mm	IEC 60243

Flammability	Value & Unit	Test Condition	Test Method
Glow Wire Flammability Index (GWFI)	750 °C	3.2mm	IEC 60695-2-12
Flame Rating, UL 94	HB class	3.2mm	UL94
Flame Rating, UL 94	HB class	0.8mm	UL94
Limiting Oxygen Index (LOI)	24 %		ISO 4589

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