



Ultramid® 66 H2 G/35-V0KB NAT0046

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid 66 H2 G/35-V0KB NAT0046 is a 35% glass reinforced, heat stabilized injection molding grade. It is a V-0 self-extinguishing grade, based on red phosphorous. It offers good flowability and mechanical properties. It has excellent electrical properties.

Applications

Ultramid 66H2 G/35-V0KB NAT0046 is designed for applications requiring good processing, mechanical integrity and flammability performance.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Additive	• Flame Retardant [Red phosphorous] • Heat Stabilizer
Features	• Flame Retardant • Good Flow • Heat Stabilized • Good Electrical Properties • Good Processability • Self Extinguishing
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.64E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	25400	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.7	%	ISO 527-2
Flexural Modulus (73°F)	1.55E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	4.3	ft·lb/in ²	
73°F	4.8	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180
-40°F	4.3	ft·lb/in ²	
73°F	4.8	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	477	°F	ISO 75-2/A
Melting Temperature (DSC)	500	°F	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	545 to 572	°F
Mold Temperature	176 to 194	°F
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	

Notes

¹ Typical properties: these are not to be construed as specifications.