

Ultramid® 66 H2 G/35-V0KB NAT0046

Polyamide 66

BASF Corporation

Message:

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, with 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 Information			
UL YellowCard	E36632-100101020		
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Flame Retardant 3		
	Heat Stabilizer		
Features	Flame Retardant		
	Good Electrical Properties		
	Good Flow		
	Good Processability		
	Heat Stabilized		
	Self Extinguishing		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	175	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	%	ISO 527-2
Flexural Modulus (23°C)	10700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	9.0	kJ/m²	
23°C	10	kJ/m²	
Notched Izod Impact Strength			ISO 180
-40°C	9.0	kJ/m²	
23°C	10	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	247	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.050	%	
Processing (Melt) Temp	285 to 300	°C	
Mold Temperature	80.0 to 90.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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