Ultramid® 66 H2 G/25-V0KB1 NAT0046

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid 66 H2 G/25-V0KB1 NAT0046 is a 25% 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/25-V0KB1 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, 25% Filler by Weight		
Additive	• Flame Retardant [Red phosphorous]	• 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		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 73°F)	21000	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.4	%	ISO 527-2
Flexural Modulus (73°F)	1.15E+6	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.0	ft·lb/in²	ISO 179
Notched Izod Impact Strength (73°F)	3.7	ft·lb/in²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	473	°F	ISO 75-2/A
Melting Temperature (DSC)	500	°F	ISO 3146
RTI Elec			UL 746
0.030 in	266	°F	
0.06 in	266	°F	
0.12 in	266	°F	
RTI Imp			UL 746
0.030 in	239	°F	
0.06 in	239	°F	
0.12 in	239	°F	

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Thermal	Nominal Value	Unit	Test Method
RTI Str			UL 746
0.030 in	284	°F	
0.06 in	284	°F	
0.12 in	284	°F	

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	HB		
0.06 in	V-0		
0.12 in	V-0		

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.