

Ultramid® Advanced N3U40G6 LS BK23326

BASF Corporation - Polyamide 9T

Monday, November 4, 2019

General Information

Product Description

Preliminary Product - Ultramid Advanced N3U40G6 LS BK23326 is a partially aromatic, 30% glassfiber reinforced and flame retardant polyphthalamide for injection molding with outstanding electrical and mechanical properties, good long-term thermal stability and excellent chemical resistance for highly stressed parts. The flame retardant is without halogens and highly stable against migration and weathering. This material has high toughness, extremely low water absorption and outstanding dimensional stability. It features high flowability and allows filling of complex parts with thin wall thickness. It is easily processable with excellent melt stability.

General					
Material Status	Commercial: Active				
Availability	• Europe	North America			
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight				
Additive	Flame Retardant				
Features	AromaticChemical ResistantFlame RetardantGood Electrical PropertiesGood Processability	Good Thermal StabilityGood Weather ResistanceHalogen FreeHigh Dimensional StabilityHigh Flow	 High Melt Stability High Stiffness High Toughness Low to No Migration Low to No Water Absorption		
Uses	 Thin-walled Parts 				
Processing Method	Injection Molding				

ed Unit g/cm³ cm³/10mir	Test Method ISO 1183 ISO 1133
cm³/10mir	ISO 1133
	1
	ISO 294-4
	.55 201 1
%	
%	
	ISO 62
%	
ed Unit	Test Method
s psi	ISO 527-2
psi	ISO 527-2
%	ISO 527-2
s psi	ISO 178
psi	ISO 178
ed Unit	Test Method
	ISO 179
ft·lb/in²	
	ISO 179
ft·lb/in²	
ft·lb/in²	
ed Unit	Test Method
	ISO 75-2/A
°F	
;	%



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Гhermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC)	572		°F	ISO 3146
CLTE - Flow	1.1E-5	2.8E-5 to 3.1E-5	in/in/°F	
RTI Elec				UL 746
0.016 in	185		°F	
0.030 in	185		°F	
0.06 in	185		°F	
0.12 in	185		°F	
RTI Imp				UL 746
0.016 in	185		°F	
0.030 in	185		°F	
0.06 in	185		°F	
0.12 in	185		°F	
RTI Str				UL 746
0.016 in	185		°F	
0.030 in	185		°F	
0.06 in	185		°F	
0.12 in	185		°F	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+17	1.0E+17	ohms∙cm	IEC 60093
Dielectric Constant (1 MHz)	3.70	3.80		IEC 60250
Dissipation Factor (1 MHz)	0.011	0.016		IEC 60250
Comparative Tracking Index	600	-	V	IEC 60112
lammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.016 in	V-0			
0.030 in	V-0			
0.00:	• V-0			
0.06 in	• 5VA			
0.40 :	• V-0			
0.12 in	• 5VA			
	Processing Info	rmation		
njection		Dry Unit		
Drying Temperature - Desiccant Dryer		248 °F		
Drying Time		8.0 hr		
Suggested Max Moisture		0.050 %		

Notes

Processing (Melt) Temp

Mold Temperature



590 to 644 °F 212 to 320 °F

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