Bergamid™ A700 G35 H (f1)

Polyamide 66

PolyOne Corporation

Message:

Bergamid™ A700 G35 H (f1) is a Polyamide 66 (Nylon 66) product filled with 35% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
RoHS Compliant

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
UL File Number	QMFZ2.E76261		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	1.41	g/cm³	DIN 53479
Dimensional Stability	0.0	%	ISO 2796
K-Value [2]	74.0 to 78.0		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [3] (23°C)	11500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/A
-30°C	12	kJ/m²	
23°C	14	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	75	kJ/m²	
23°C	90	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Maximum Use Temperature			IEC 60216
-- [4]	120	°C	
Short Time	220	°C	
Melting Temperature (DSC)	261	°C	ISO 3146
RTI Elec			UL 746
0.700 mm	100	°C	

1.50 mm	100	°C	
3.00 mm	100	°C	
RTI Imp			UL 746
0.700 mm	90.0	°C	
1.50 mm	90.0	°C	
3.00 mm	90.0	°C	
RTI Str			UL 746
0.700 mm	100	°C	
1.50 mm	105	°C	
3.00 mm	110	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+11	ohms·cm	IEC 60093
Dielectric Strength			
--	21	kV/mm	ASTM D149
--	90	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.70		IEC 60250
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.700 mm	PLC 0		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
0.700 mm	PLC 4		
1.50 mm	PLC 1		
3.00 mm	PLC 0		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			
0.700 mm, ALL	HB		UL 94
1.50 mm, ALL	HB		UL 94
3.00 mm, ALL	HB		UL 94
3.00 mm, ALL	HB40		IEC 60695-11-10, -20
0.700 mm, ALL	HB75		IEC 60695-11-10, -20
1.50 mm, ALL	HB75		IEC 60695-11-10, -20
NOTE			
1.	±0.03 g/cm³		
2.	96% H2SO4		
3.	1 mm/min		
4.	Continuous (GTP 50% Tensile)		

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