

Bergamid™ A700

Polyamide 66
PolyOne Corporation

Message:

Bergamid™ A700 is a Polyamide 66 (Nylon 66) product. It can be processed by extrusion or injection molding and is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
RoHS Compliant

General Information				
UL YellowCard		E76261-249978		
RoHS Compliance		RoHS Compliant		
UL File Number		E76261		
Forms		Pellets		
Processing Method		Extrusion		
		Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density ¹	1.13	--	g/cm ³	DIN 53479
Water Absorption				ISO 62
Saturation, 23°C	8.5	--	%	
Equilibrium, 23°C, 50% RH	2.8	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ² (23°C)	3200	1600	MPa	ISO 527-2/1
Tensile Stress ³ (Yield, 23°C)	80.0	60.0	MPa	ISO 527-2/50
Tensile Strain ⁴ (Yield, 23°C)	4.5	25	%	ISO 527-2/50

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	6.0	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/A

Maximum Use Temperature				IEC 60216
-- ⁵	90	--	°C	
Short Time	200	--	°C	
Melting Temperature (DSC)	261	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	120	80	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.60	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.026	0.20		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.420 to 3.00 mm)	V-2	V-2		UL 94
Glow Wire Flammability Index ⁶ (0.800 mm)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature ⁷ (0.800 mm)	675	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time - Desiccant Dryer	4.0 to 8.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	40.0 to 80.0		°C	
Back Pressure	50.0 to 100		MPa	
NOTE				
1.	±0.02 g/cm ³			
2.	dry as moulded			
3.	dry as moulded			
4.	dry as moulded			
5.	Continuous (GTP 50% Tensile)			
6.	Typical property for uncolored material, not to be construed as specification			
7.	Typical property for uncolored material; not to be construed as specification			

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