Badamid® T70

Polyamide 6/6T Copolymer

Bada AG

Message:

For extrusion and injection moulding, high toughness, strength and stiffness, low water absorption, high melting point

General Information	
Features	Copolymer
	Good Toughness
	High Stiffness
	High Strength
	Low to No Water Absorption
Processing Method	Extrusion
	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.5 to 7.5	--	%	
Equilibrium, 23°C, 50% RH	1.6 to 2.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	3200	3200	MPa	ISO 527-2/1
Tensile Stress [1] (Yield, 23°C)	100	90.0	MPa	ISO 527-2/50
Tensile Strain [2] (Yield, 23°C)	4.5	4.5	%	ISO 527-2/50
Nominal Tensile Strain at Break				ISO 527-2/50
23°C [3]	12	--	%	
23°C [4]	--	12	%	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength [5] (23°C)	12	10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength [6] (23°C)	100	100	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength [7] (23°C)	7.0	--	kJ/m²	ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature [8]				
0.45 MPa, Unannealed	120	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	100	--	°C	ISO 75-2/A
Melting Temperature (DSC) [9]	295	--	°C	ISO 3146
CLTE [10]				ISO 11359-2
Flow	6.0E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
Maximum Service Temperature				IEC 216
20000 hrs	90	--	°C	
some hours	240	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity [11]	1.0E+13	--	ohms	IEC 60093
Volume Resistivity [12]	1.0E+13	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity [13] (1 MHz)	4.00	4.00		IEC 60250
Dissipation Factor (1 MHz)	0.030	0.040		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	310 to 340		°C	
Mold Temperature	80.0 to 110		°C	
NOTE				
1.	Test Specimen accordng to ISO 3167, Type A			
2.	Test Specimen accordng to ISO 3167, Type A			
3.	80x10x4			
4.	80x10x4 mm			
5.	80x10x4 mm			
6.	80x10x4 mm			
7.	80x10x4 mm			
8.	110x10x4 mm			
9.	10 K/min, Compound for moulding			
10.	>=10x10x4 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			
13.	80x80x1 mm			

Recommended distributors for this material

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