Technical Data Sheet

Badamid® PA610

>PA610<

Unreinforced PA610 resin for injection moulding

Properties	Test Conditions	Test Methods	Units	Dry as moulded	conditioned 23° C, 50% r.H.
Mechanical Properties					
Modulus of Elasticity, tensile	23° C, 1 mm/Min	ISO 527-1/2	MPa	2 000	1 600
Yield Stress [1]	23° C, 50 mm/Min	ISO 527-1/2	MPa	60	50
Yield Strain [1]	23° C, 50 mm/Min	ISO 527-1/2	%	100	>100
Nominal Strain at Break [1]	23° C, 50 mm/Min	ISO 527-1/2	%	-	*
Stress at Break [1]	23° C, 5 mm/Min	ISO 527-1/2	MPa	-	-
Strain at Break [1]	23° C, 5 mm/Min	ISO 527-1/2	%	-	-
Bending Strength [2]	23° C	ISO 178	MPa	-	-
Charpy Impact Strength, unnotched [2]	23° C -30° C	ISO 179/1eU ISO 179/1eU	kJ/m2 kJ/m2	NB -	* *
Notched Charpy Impact Strength [2]	23° C -30° C	ISO 179/1eA ISO 179/1eA	kJ/m2 kJ/m2	16 -	* *
Izod notched Impact Strength [2]	23° C -30° C	ISO 180/1A ISO 180/1A	kJ/m2 kJ/m2	- -	* *
Thermal Properties					
Melting Temperature [3]	10 K/Min	ISO 3146	°C	220	*
Temperature of Deflection under Load [4]	0,45 MPa 1,8 MPa	ISO 75-1/2 ISO 75-1/2	°C °C	175 70	*
Coefficient of Linear Thermal Elongation [5]	parallel direction transverse direction	DIN 53752 DIN 53752	E-4/K E-4/K	- -	*
Maximum Service Temperature	some hours 20 000 h 50 % Decrease in Tensile Strength or Yield Stress	- IEC 216	°C °C	- -	*
Flammability [6]	0.8 mm 1.6 mm	UL 94 UL 94	Class Class	HB HB	* *
Glow Wire Test	0.75 mm / 1.6 mm 0.75 mm / 1.6 mm	GWIT GWFI	IEC-60695-2-13 IEC-60695-2-12	- -	- -
Electric Properties					
Relative Permittivity [7]	1 MHz	IEC 250	-	-	-
Dissipation Factor [7]	1 MHz	IEC 250	E-4	-	-
Specific Volume Resistivity [7]	-	IEC 93	Ohm cm	10^{13}	*
Specific Surface Resistivity [7]	-	IEC 93	Ohm	-	*
Dielectric Strength [7]	-	IEC 243-1	kV/mm	30	*
Comparative Tracking Index	-	IEC 112	V	550	*
Other data					
Water Absorption	23° C. Saturation	ISO 62	%	-	*
Moisture Absorption	23° C. 50 % r.H.	ISO 62	%	0,4	*
Density	23° C	ISO 1183	g/ccm	1.07	*
Processing					
Melt Temperature	-	-	°C	250 – 290	
Tool Surface Temperature	-	-	°C	60-90	
Drying Temperature	-	-	°C	80	
Drying Time	-	-	h	2-4	

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