

Badamid® PA12 H UV EX

Polyamide 12

Bada AG

Message:

Plasticized, unreinforced, heat stabilized and UV protected PA12; Well suited for extrusion of pneumatic tubes and vacuum tubes of power brakes

General Information				
Additive		Heat Stabilizer		
		Plasticizer		
		UV Stabilizer		
Features		Good UV Resistance		
		Heat Stabilized		
		Plasticized		
Uses		Automotive Applications		
		Pneumatic Applications		
		Tubing		
Processing Method		Extrusion		
Resin ID (ISO 1043)		>PA12<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/1.0 kg)	8.0	--	g/10 min	ISO 1133
Water Absorption (Saturation, 23°C)	0.70	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	62	--		ISO 2039-2
Shore Hardness (Shore D)	70	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Yield, 23°C)	29.0	--	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	25	--	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 200	--	%	ISO 527-2/50
Flexural Modulus (23°C)	400	--	MPa	ISO 178
Flexural Stress (23°C, 4.00 mm)	20.0	--	MPa	ISO 178
Wear Resistance	8.0	--	mg	ISO 9352
Impact	Dry	Conditioned	Unit	Test Method

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	--		
Notched Izod Impact Strength				ISO 180/1A
-30°C, Complete Break	3.0	--	kJ/m ²	
23°C, Partial Break	120	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	100	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	57.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	171	--	°C	ISO 3146
CLTE - Flow (4.00 mm)	1.7E-4	--	cm/cm/°C	DIN 53752
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (1.00 mm)	1.0E+12	--	ohms·cm	IEC 60093
NOTE				
1.	10 K/Min			

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