

NYLAFORCE® B 70

Polyamide 6

LEIS Polytechnik - polymere Werkstoffe GmbH

Message:

produced by feed up-process, polyamide 6 + 70% glass fibres, heat stabilized

General Information				
Filler / Reinforcement		Glass Fiber,70% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.85	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.10 to 0.30	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C ²	--	18000	MPa	
23°C	25000	--	MPa	
80°C	12100	--	MPa	
120°C	11600	--	MPa	
Tensile Stress				ISO 527-2
23°C ³	--	180	MPa	
23°C	255	--	MPa	
80°C	140	--	MPa	
120°C	100	--	MPa	
Tensile Strain				ISO 527-2
Break, 23°C ⁴	--	3.0	%	
Break, 23°C	2.5	--	%	
Break, 80°C	4.1	--	%	
Break, 120°C	3.1	--	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	16	--	kJ/m ²	
23°C	--	24	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	87	--	kJ/m ²	
23°C ⁵	--	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	> 200	--	°C	ISO 75-2/A
Melting Temperature (DSC) 6	221	--	°C	ISO 3146

NOTE				
1.	60mm x 60mm x 2mm			
2.	Tested according to ISO 527/ISO 1110			
3.	Tested according to ISO 527/ISO 1110			
4.	Tested according to ISO 527/ISO 1110			
5.	Tested according to ISO 179/ISO 1110			
6.	10K/min			

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