

NYLAFORCE® A 50

Polyamide 66

LEIS Polytechnik - polymere Werkstoffe GmbH

Message:

produced by feed up-process, polyamide 6.6 + 50% glass fibres, heat stabilized

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.10 to 0.50	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C ²	--	12000	MPa	
23°C	18000	--	MPa	
80°C	12300	--	MPa	
120°C	7900	--	MPa	
Tensile Stress				ISO 527-2
23°C ³	--	180	MPa	
23°C	260	--	MPa	
80°C	155	--	MPa	
120°C	135	--	MPa	
Tensile Strain				ISO 527-2
Break, 23°C ⁴	--	4.5	%	
Break, 23°C	2.9	--	%	
Break, 80°C	3.8	--	%	
Break, 120°C	6.2	--	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	16	--	kJ/m ²	
23°C ⁵	--	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	96	--	kJ/m ²	
23°C ⁶	--	96	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	250	--	°C	ISO 75-2/A
Melting Temperature (DSC) 7	260	--	°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.	Tested according to ISO 179/ISO 1110
7.	10K/min

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