

AQUAFORCE® PA66 G60-01 SCHWARZ

Polyamide 66

LEIS Polytechnik - polymere Werkstoffe GmbH

Message:

polyamide 6.6 + 60% glass fibres, heat stabilized, potable water and food grade

General Information				
Filler / Reinforcement	Glass Fiber,60% Filler by Weight			
Additive	Heat Stabilizer			
Features	Food Contact Acceptable			
	Heat Stabilized			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.69	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.10 to 0.50	--	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	3.1	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C ²	--	11000	MPa	
23°C ³	--	14200	MPa	
23°C	20500	--	MPa	
Tensile Stress				ISO 527-2
23°C ⁴	--	130	MPa	
23°C ⁵	--	165	MPa	
23°C	240	--	MPa	
Tensile Strain				
Break, 23°C ⁶	--	4.0	%	ISO 527-2
Break, 23°C	2.6	--	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
23°C ⁷	--	26	kJ/m ²	
23°C ⁸	--	18	kJ/m ²	
23°C	14	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
23°C ⁹	--	70	kJ/m ²	
23°C ¹⁰	--	80	kJ/m ²	

23°C	85	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC) 11	260	--	°C	ISO 3146
NOTE				
1.	60mm x 60mm x 2mm			
2.	Saturated in Water			
3.	Testing according to ISO 527/ISO 1110			
4.	Saturated in Water			
5.	Testing according to ISO 527/ISO 1110			
6.	Saturated in Water			
7.	Saturated in Water			
8.	Testing according to ISO 179/ISO 1110			
9.	Saturated in Water			
10.	Testing according to ISO 179/ISO 1110			
11.	10K/min			

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