

AQUAFORCE® PA66 G30-01 SCHWARZ

Polyamide 66

LEIS Polytechnik - polymere Werkstoffe GmbH

Message:

polyamide 6.6 + 30% glass fibres, heat stabilized, potable water and food grade

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Food Contact Acceptable			
	Heat Stabilized			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.10 to 0.90	--	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	5.2	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C ²	--	5400	MPa	
23°C ³	--	7000	MPa	
23°C	10500	--	MPa	
Tensile Stress				ISO 527-2
23°C ⁴	--	95.0	MPa	
23°C ⁵	--	120	MPa	
23°C	190	--	MPa	
Tensile Strain				ISO 527-2
Break, 23°C ⁶	--	6.5	%	
Break, 23°C ⁷	--	5.5	%	
Break, 23°C	3.0	--	%	

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
23°C ⁸	--	25	kJ/m ²	
23°C ⁹	--	12	kJ/m ²	
23°C	10	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
23°C ¹⁰	--	75	kJ/m ²	

23°C ¹¹	--	70	kJ/m ²	
23°C	70	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC) 12	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.	Testing according to ISO 527/ISO 1110			
8.	Saturated in Water			
9.	Testing according to ISO 179/ISO 1110			
10.	Saturated in Water			
11.	Testing according to ISO 179/ISO 1110			
12.	10K/min			

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