

AQUAFORCE® PA66 G50-01 SCHWARZ

Polyamide 66

LEIS Polytechnik - polymere Werkstoffe GmbH

Message:

polyamide 6.6 + 50% glass fibres, heat stabilized, potable water and food grade

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer
Features	Food Contact Acceptable
	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
Water Absorption				ISO 62
Saturation, 23°C	3.8	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C ²	--	9000	MPa	
23°C ³	--	11500	MPa	
23°C	16900	--	MPa	
Tensile Stress				ISO 527-2
23°C ⁴	--	130	MPa	
23°C ⁵	--	160	MPa	
23°C	235	--	MPa	
Tensile Strain				
Break, 23°C ⁶	--	4.5	%	ISO 527-2
Break, 23°C	2.7	--	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
23°C ⁷	--	28	kJ/m ²	
23°C ⁸	--	18	kJ/m ²	
23°C	13	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
23°C ⁹	--	75	kJ/m ²	
23°C ¹⁰	--	85	kJ/m ²	

23°C	90	--	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

