Nylon 66 Glass Filled

Technical Information:

Information to be used as a guide only. It corresponds with our current knowledge and indicates possible applications. We cannot guarantee suitability for a specific application. Unless otherwise stated these values represent averages taken from injection moulded samples.

Properties	Unit	Test Method DIN ASTM	Result Dry	Result Wet*
Mechanical	-	-	-	-
Density	g/cm³	53479	1.35	-
Tensile strength at yield	MPa	53455	-	-
Tensile strength at break	MPa	53455	200	140
Elongation at Break	%	53455	3.5	5
Modulus of elasticity in tension	MPa	53457	9700	7500
Modulus of elasticity in flexure	MPa	53457	-	-
Ball indentation hardness	MPa	53456	270	200
Impact strength (Charpy)	KJ/m²	53453	13	17
Creep rupture strength after 1000 hours with static load	MPa	-	-	-
Time yield limit for 1% elongation after 1000 hours	MPa	-	40	-
Coefficient of friction against hardened and ground steel p+0,05 N/mm2, v=0,6 m/s	-	-	0.45-0.5	-
Wear conditions as above	µm/km	-	-	-
Thermal	-	-	-	-
Crystalline melting point	ºC	53736	225	-
Glass transition temperature	ºC	53736	50	5
Heat distortion temperature method A	ºC	ISO 75	250	-
Heat distortion temperature method B	ºC	ISO 75	250	-
Max. service temperature short term	ºC	-	200	-
Max. service temperature long term	ºC	-	110	-
Coefficient of thermal conductivity	W/(m K)	-	0.27	
Specific heat	J/(g K)	-	1.5	
Coefficient of thermal expansion	10-5/K	-	2.3	
Electrical	-	-	-	
Dielectric constant at 10 (5) Hz	-	53483	-	-
Dielectric loss factor at 10(5) Hz	-	53483	-	-
Specific Volume Resistance	Ωcm	53482	-	-
Surface Resistance	O	53482	-	-
Dielectric strength 1mm	kV/mm	53481	-	-

Tracking resistance	-	-	-	-
Miscellaneous	-	-	-	-
Moisture Absorption: Equilibrium in standard atmosphere (23ºC / 50% relative humidity)	%	53714	1.5	
Water absorption at saturation at 23ºC	%	53495	5.5	
Resistance to hot water, washing soda	-	-	limited resistance	
Flamability	-	UL 94	HB	
Resistance to weathering	-	-	not resistant	

ALLPLASTICS ENGINEERING PTY LTD
Unit20, 380 Eastern Valley Way
CHATSWOOD NSW 2067

Phone (02) 9417 6111 Fax (02) 9417 6169
E-mail: sales@allplastics.com.au
Web: www.allplastics.com.au

sales@allplastics.com.au www.allplastics.com.au Phone (02) 9417 6111 Fax (02) 9417 6169