

Nylon 66

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/cm ³	53479	1.14	-
Tensile strength at yield	MPa	53455	90	70
Tensile strength at break	MPa	53455	-	-
Elongation at Break	%	53455	40	150
Modulus of elasticity in tension	MPa	53457	3300	2000
Modulus of elasticity in flexure	MPa	53457	2830	-
Ball indentation hardness	MPa	53456	170	100
Impact strength (Charpy)	KJ/m ²	53453	no break	-
Creep rupture strength after 1000 hours with static load	MPa	-	55	-
Time yield limit for 1% elongation after 1000 hours	MPa	-	8	-
Coefficient of friction against hardened and ground steel p+0,05 N/mm ² , v=0,6 m/s	-	-	0.35 - 0.42	-
Wear conditions as above	µm/km	-	0.9	-
Thermal	-	-	-	-
Crystalline melting point	°C	53736	255	-
Glass transition temperature	°C	53736	50	5
Heat distortion temperature method A	°C	ISO 75	100	-
Heat distortion temperature method B	°C	ISO 75	>200	-
Max. service temperature short term	°C	-	170	-
Max. service temperature long term	°C	-	100	-
Coefficient of thermal conductivity	W/(m K)	-	0.23	
Specific heat	J/(g K)	-	1.7	
Coefficient of thermal expansion	10 ⁻⁵ /K	-	7	
Electrical	-	-	-	
Dielectric constant at 10 (5) Hz	-	53483	3.6	5.0
Dielectric loss factor at 10(5) Hz	-	53483	0.026	0.2
Specific Volume Resistance	Ωcm	53482	10 (15)	10 (12)
Surface Resistance	Ω	53482	10 (13)	10 (12)
Dielectric strength 1mm	kV/mm	53481	>30	28
Tracking resistance	-	53480	CTI600	CTI600

Miscellaneous	-	-	-	-
Moisture Absorption: Equilibrium in standard atmosphere (23°C / 50% relative humidity)	%	53714	2.8	
Water absorption at saturation at 23°C	%	53495	8.5	
Resistance to hot water, washing soda	-	-	limited resistance	
Flamability	-	UL 94	V2	
Resistance to weathering	-	-	not resistant	

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