

MATERIAL DATASHEET

Material Reference:
 FLUORINOID® FL328
 Polyamide 66 (NYLON 66)

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> Description >

A polyamide material offering high tensile strength and stiffness, high tensile and flexural modulus, excellent wear characteristics, high heat deflection temperature under load, good resistance to abrasion and good impact strength. FL328 is hygroscopic which results in dimensional and property changes under the influence of humidity.

> Typical Physical Properties

Properties	Dry	Wet	Method
Density	1.14 g/cm ³		ASTM D792
Tensile Strength at Yield	80 MPa	60 MPa	ASTM D638
Elongation at Break	40%	150%	ASTM D638
Modulus of Elasticity in Tension	3100 MPa	2000 MPa	ASTM D638
Modulus of Elasticity in Flexure	2830 MPa		ASTM D790
Ball Indentation Hardness	170 MPa	100 MPa	ISO 2039/1
Coefficient of Friction Against Hardened and Ground Steel p = 0.05 N/mm ² , v = 0.6 m/s	0.35 - 0.42		
Crystalline Melting Point	260°C		DIN 53736
Heat Distortion Temperature Method A Method B	100°C >200°C		ISO R75 ISO R75
Maximum Service Temperature Short term Long term	170°C 100°C		
Dielectric Constant at 105Hz	3.6-5		53483
Specific Volume Resistance	10 ¹² Ω.cm		60093
Dielectric Strength 1mm	28-30 kV/mm		ASTM D149
Moisture Absorption: Equilibrium in Standard Atmosphere	2.8%		
Water Absorption at Saturation at 23°C	8.5%		

These figures are typical values for the material and do not represent a product specification. Properties will vary depending on the source of raw material, method of processing, physical form of the product, direction of measurement etc.