

NYLFOR 74S5501PO 0001 A1140001E

Polyamide 66 Compound (PA66)

Description	Standard viscosity polyamide 66, 50% glass fiber reinforced. Flame retardant grade UL94 V-0 with red phosphorous
Color	Natural
Norm compliance	Compliant with Regulation (EC) No 1907/2006 (REACH)
Certifications	UL listed under file n° E187982
Processing technology	Injection moulding

Physical properties	Typical value (SI)	Typical value (EN)	Test method
Density	1.59 g/cm ³	1.59 g/cm ³	ASTM D792
Humidity absorption (23°C /50% RH)	1.9 %	1.9 %	ISO 62
Water absorption at saturation (sat/23°C)	4.50 %	4.50 %	ISO 62
Mold Shrinkage	0.35 %	0.35 %	INTERNAL
Mechanical properties	Typical value (SI)	Typical value (EN)	Test method
Tensile strength at break	185 MPa	26825 psi	ASTM D638
Tensile elongation at break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	15000 MPa	2.175e+006 psi	ASTM D638
Flexural Modulus	14000 MPa	2.03e+006 psi	ASTM D790
IZOD impact strength, notched (23 °C)	120 J/m	2.244 ft-lb/inch	ASTM D256
Charpy impact strength, notched (23 °C)	13.0 kJ/m ²	6.181 ft-lb/inch ²	ISO 179 - 1eA
Thermal properties	Typical value (SI)	Typical value (EN)	Test method
HDT Heat Deflection Temperature A (1,82 MPa)	255 °C	491 F°	ASTM D648
Flammability	Typical value (SI)	Typical value (EN)	Test method
Flame Rating (1,6 mm)	V0 Class	V0 Class	UL94
Flame Rating (3,2 mm)	V0 Class	V0 Class	UL94

Processing conditions	Typical value (SI)	Typical value (EN)
Drying	4h/90 °C	4h/194 °F
Injection moulding	Typical value (SI)	Typical value (EN)
Recommended processing temperatures:		
1st Zone	270 °C	518 °F
2nd Zone	280 °C	536 °F
3rd Zone	280 °C	536 °F
Mould	60-90 °C	140-194 °F

Storage

This product should be stored in a covered facility and kept away from moisture and heat.

Disclaimer

The figures reported in this Technical Data Sheet are based on tests and analyses carried out in SO.F.TER. laboratories on injection-moulded specimens. These figures indicate the typical material properties and are not to be considered a specification. The user shall always carry out his own tests and analyses in order to verify the suitability of the material for the specific application. Test carried out at 23°C unless otherwise stated.

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