

NKX-101 - PA6

Description

Nylon NKX-101 is an unfilled polyamide with molded-in-metallic color

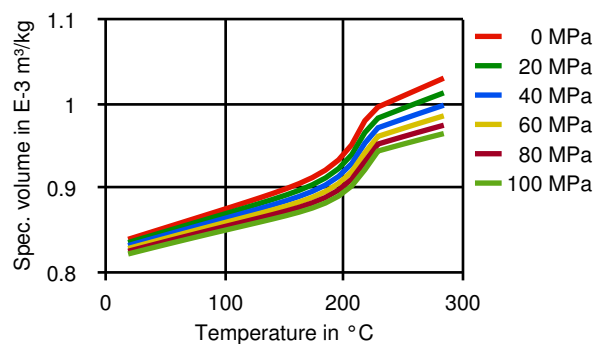
Physical properties	dry / cond	Unit	Test Standard
Density	1140 / -	kg/m ³	ISO 1183
Molding shrinkage, parallel	0.9	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
Water absorption, 23°C-sat	9.6 / *	%	ISO 62

Mechanical properties	dry / cond	Unit	Test Standard
Tensile modulus	3450 / -	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	77 / -	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	4 / -	%	ISO 527-2/1A
Flexural modulus, 23°C	3300 / -	MPa	ISO 178
Flexural modulus, -40°C	- / 0	MPa	ISO 178
Charpy notched impact strength, 23°C	6 / -	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
Melting point, peak	220	°C	ISO 3146
DTUL at 1.8 MPa	64 / *	°C	ISO 75-1, -2
DTUL at 0.45 MPa	169 / *	°C	ISO 75-1, -2

Diagrams

Moldflow Specific volume-temperature (pvT)



Typical injection moulding processing conditions

Temperature	Value	Unit	Test Standard
Melt temperature	≤285	°C	-

Other text information

Injection Molding Preprocessing

Product needs to be dried before processing. A dehumidifying or desiccant dryer operating at 80 degC (176 degF) is recommended. The drying time will depend on the moisture level, we advise drying for 4-12h. Please refer to SDS for safe material handling.

Injection molding

Typical Profile

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Melt Temperature 240-266 degC (464-511 degF)
Mold Temperature 65-110 degC (149-230 degF)

Fill Rate
Medium fill rates are recommended.

Characteristics

Special Characteristics	Product Categories
Specialty appearance	Unfilled