

CELANYL® LXB3 UV MetaLX - PA6

Description

(NKX-101 MetaLX)

Celanyl LXB3 UV MetaLX is a UV stabilized, unfilled polyamide with molded-in-metallic color grade

Physical properties	Value	Unit	Test Standard
Density	71.2	lb/ft ³	ISO 1183
Molding shrinkage, parallel (flow)	0.9	%	ISO 294-4, 2577
Molding shrinkage, transverse normal	0.9	%	ISO 294-4, 2577
Water absorption, 23°C-sat	9.6	%	Sim. to ISO 62
Viscosity number (PA), H ₂ SO ₄	147	ml/g	ISO 307 (PA)

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	500381/319084	psi	ISO 527-1, -2
Tensile stress at yield, 50mm/min	11200/6960	psi	ISO 527-1, -2
Tensile strain at yield, 50mm/min	4/15	%	ISO 527-1, -2
Flexural modulus, 23°C	479000/-	psi	ISO 178
Charpy notched impact strength, 23°C	2.85/7.14	ft-lb/in ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature, 20°C/min	428	°F	ISO 11357-1/-3
DTUL at 1.8 MPa	147	°F	ISO 75-1, -2
DTUL at 0.45 MPa	336	°F	ISO 75-1, -2

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

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	Low warpage, Specialty appearance, UV resistant
Product Categories	Unfilled
Processing	Injection molding