

UNINKOPLAS® UEP66/60NH3

Nylon 66, Unfilled, Natural

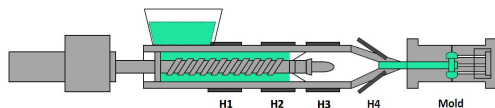
Key Features:	Typical Applications:	Appearance:
◆ Unfilled	◆ Injection Molding	◆ Natural Color / Translucent
◆ Lubricated	◆ Automotive Applications	◆ Pellets / Granules
◆ General Purpose	◆ Electrical / Electronic Applications	
◆ Good Toughness	◆ Industrial Applications, Sports Instruments	

Properties	Test Method	Test Condition	Unit	Typical Value
Physical Properties				
Specific Gravity	ISO 1183	23°C	g/cm ³	1.14
Mold Shrinkage, Flow	ISO 294-4	Cold mold, 48 hrs	%	1.0-1.6
Moisture Absorption	ISO 62	23°C; 50 % RH	%	2.6
Melt Flow Rate, MFR	ISO 1133	2.16kg, 280°C	g/10min	-
Filler Content	ISO 3451	800°C/2h	%	0
Mechanical Properties				
Tensile Strength, Break	ISO 527	50mm/min	Mpa	75
Elongation at Break	ISO 527	50mm/min	%	>10
Flexural Strength	ISO 178	2mm/min	Mpa	115
Flexural Modulus	ISO 178	2mm/min	Mpa	2900
Izod Impact, Notched	ISO 180/1A	23°C	KJ/m ²	6.5
Thermal Properties				
Melting Temperature	ISO 11357	DSC	°C	260
Heat Deflection Temperature	ISO 75	1.80 Mpa	°C	75
CTE, Flow	ISO11359	23 to 80°C	µm/m·°C	-
Flammability				
Flame Rating	UL94	1.60 mm		HB
Electrical Properties				
Dielectric Constant	IEC 60250	1 MHz		3.5
Dielectric Strength	IEC 60243	0.8 mm, in oil	kV/mm	35
Dissipation Factor	IEC 60250	1 MHz		0.033
Comparative Tracking Index	IEC 60112	Solution A	V	600
Volume Resistivity	IEC 60093	23°C	ohm·cm	>10 ¹⁵

[1] The information provided in this data sheet are typical test values as reference which corresponds to UNINKO injection moulding machines, moulds and processing conditions and not to be construed as specifications.

[2] The test values do vary with different injection moulding machines, moulds and processing conditions, hence users should confirm the results by their own tests.

[3] Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.



Processing Parameters

Materials Drying Process	
Drying Temperature	80-90°C
Drying Time	4-6 hrs
Maximum Moisture Content	0.20%
Injection Process	
Mold Temperature	60-90°C
Nozzle - H4 Temperature	280-285°C
Front - H3 Temperature	280-285°C
Middle - H2 Temperature	270-280°C
Rear - H1 Temperature	265-275°C
Melt Temperature	260-280°C
Injection Pressure	40~120 Mpa
Holding Pressure	30~80 Mpa
Injection Speed	medium to high

[1] The parameter is just for referential purpose only. In actual processing, the parameter should be adjusted by construction of molds, shape and size of products, and so on.

CAUTION/警告!

Before using, read the Molding Guide, Material Safety Data Sheets(MSDS), and Bulletins available from UNINKO Sales Offices and Distributors provided to your company. Caution! During drying, purging and molding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Use adequate local exhaust ventilation during thermal processing. To prevent resin decomposition, do not contaminate the resin or exceed the recommended melt temperature or hold-up time. Avoid inhalation or skin and eyes contact. Sweep up and dispose of spilled resin to eliminate slipping hazard.

在使用之前, 请阅读优立可公司销售办事处和经销商提供给贵公司的材料成型指南、材料安全数据表和公告。警告! 在干燥、吹扫和成型过程中, 少量有害气体或颗粒物可能会在被释放, 这些可能会刺激眼睛, 鼻子和喉咙。热处理过程中请注意做好排气通风工作。为防止树脂分解, 请勿污染树脂或超过我们为您推荐的热熔温度或时间。请避免吸入或与皮肤、眼睛等接触。清扫和处理溢出的树脂, 以消除滑到的危险。

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