



novalca

NOVALUX® REC UG18 R30

**PC compound,
non reinforced grade,
with post-industrial raw material**

UG18: medium flow, for injection molding.

R30: with at least 30% of post-industrial polymeric raw material. In compliance with ISO 14021:2016, self-declaration validated by TÜV NORD, certificate number IT-25519/2024.

Color: available in limited range of colors.

For injection molding of automotive parts and industrial, electric and electronic articles.

RECOMMENDED PROCESSING PARAMETERS FOR INJECTION MOLDING		
DRYING CONDITIONS	BARREL TEMPERATURE	MOULD TEMPERATURE
100 °C x 3 ÷ 4 hours Maximum moisture content after drying ≤ 0.02%	270 ÷ 300 °C Standard melt temperature: 290°C	80 ÷ 120 °C
PACKAGING		
25 Kg Bags, 1000 Kg Octabins, 750 Kg Boxes		

PROPERTIES	METHOD		UNIT	TYPICAL VALUES
PHYSICAL				
Density	ASTM D792	ISO 1183	gr/cm ³	1.20
Humidity Absorption (equilibrium, in air, +23°C – 50% RH)	INTERNAL METHOD		%	0.12
Mould Shrinkage	INTERNAL METHOD		%	0.5 ÷ 0.7
Melt Flow Index MFI (300 °C – 1.2 Kg)	ASTM D1238	ISO 1133	g/10'	18
MECHANICAL				
Tensile strength: stress at yield	ASTM D638	ISO 527-1,-2	MPa	55
strain at break	ASTM D638	ISO 527-1,-2	%	≥ 50
Flexural modulus	ASTM D790	ISO 178	MPa	2400
IZOD notched impact strength, at 23 °C	ASTM D256	-	J/m	500
Specimen dimensions 62.5 mm x 12.7 mm x 3.2 mm				
THERMAL				
VICAT softening temperature at 49 N-120 °C/h	ASTM D1525/B	ISO 306/B	°C	142
Ball pressure test at 125 ± 2°C	BS 3456	IEC 600695-10-2	°C	Passed
ELECTRICAL				
Surface resistivity	ASTM D257	IEC 60093	Ohm	1E16
Comparative tracking index (solution A, CTI)	VDE 0303-P1	IEC 60112	V	250
FLAMMABILITY				
Glow wire flammability GWFI (thickness 2 mm)	IEC 60695-2-12		°C	850
Burning rate FMVSS302 (thickness 2.2/ 3.2 mm)	ISO 3795		mm/min	Passed

Our technical data are provided for guidance purpose only and are based on average values. The data are not meant to be used for specification or warranted purposes. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the data have been established on standardized test specimens at room temperature. All technical information is subject to continuous update, so the customer shall always ensure that the latest release of technical information is at his own disposal. It is the customer's responsibility to inspect and test our products in order to determine to his own satisfaction whether they are suitable for his intended uses and applications or used in conjunction with third-party materials. Unless specifically stated with reference to the specific color code, the products mentioned herein are not suitable for applications in the pharmaceutical, medical, dental and toys sectors, in contact with foodstuff or for potable water transportation.

Updating: January 2025
Printing date: 22 April 2025