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NOVALUX® REC UG18 GW960 R30

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

UG18: medium flow, for injection molding.
GW960: improved flammability properties, in compliance with GWFI960 test at 2mm.
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 a 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 Specimen dimensions 62.5 mm x 12.7 mm x 3.2 mm	ASTM D256	-	J/m	**450**
THERMAL				
VICAT softening temperature at 49 N-120 °C/h	ASTM D1525/B	ISO 306/B	°C	**140**
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				
Flammability UL94 (thickness 3.2 mm)	UL94		Class	**V0**
Glow wire flammability GWFI (thickness 2 mm)	IEC 60695-2-12		°C	**960**
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

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