



NOVALUX® PC FR

PC compound,
flame retardant grade

FR: flame retardant grade, flammability class V0 at 1.5 mm, GWFI 960°C.

Color: available in opaque colors only - for injection molding.

RECOMMENDED PROCESSING PARAMETERS FOR INJECTION MOLDING		
DRYING CONDITIONS	BARREL TEMPERATURE	MOULD TEMPERATURE
90 ÷ 100 °C x 3 ÷ 4 hours Recommended moisture level after drying ≤0.02%	270 ÷ 300 °C Standard melt temperature: 290 °C	80 ÷ 100 °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 value, in air, 23°C, 50% RH)	INTERNAL METHOD	%	0.12
Mould Shrinkage	INTERNAL METHOD	%	0.5 ÷ 0.8
Melt Flow Index MFI (300 °C -1.2 Kg)	ASTM D1238	ISO 1133	g/10' 12
MECHANICAL			
Tensile strength: stress at yield	ASTM D638	ISO 527-1,-2	MPa 63
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 580
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 60695-10-2	°C Passed
ELECTRICAL			
Surface resistivity	ASTM D257	IEC 60093	Ohm 1E16
Dielectric strength	ASTM D149	IEC 60243-1	KV/mm 34
Dielectric constant at 10 ⁶ Hz	ASTM D150	IEC 60250	- 3.0
Dissipation factor -10 ⁶ Hz	ASTM D150	IEC 60250	- 0.009
Comparative tracking index (solution A, CTI)	VDE 0303-P1	IEC 60112	V 225
FLAMMABILITY			
Flammability UL94 (thickness 3.2 mm)	UL 94	Class	V0
Flammability UL94 (thickness 1.5 mm)	UL94	Class	V0
Glow wire flammability GWFI (thickness 3.2 mm)	IEC 60695-2-12	°C	960
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 for natural color compound 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.

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