NOVALUX® REC FR FV20 R70

novalca

PC compound,
glass fiber reinforced,
flame retardand grade
with post-industrial raw material

R70: with at least 70% of post-industrial raw material. Incompliance with ISO 14021:2016.
FR: flame retardant, V0 at 1.6mm, GWFI 960°C.
FV20: 20% glass fiber reinforced grade.
Color: available in black and in a limited range of grey colors.
For injection molding of electric and industrial parts requiring improved stiffness.

RECOMMENDED PROCESSING PARAMETERS FOR INJECTION MOLDING		
DRYING CONDITIONS	**BARREL TEMPERATURE**	**MOULD TEMPERATURE**
100 °C x 3 ÷ 4 hours **Recommended moisture level after drying ≤0.02%**	**280 ÷ 320 °C** **Standard melt temperature: 300 °C**	**80 ÷ 120 °C**
SHRINKAGE: Shrinkage is affected by the geometry and the wall thickness of the molded part by the position and size of the gate and by the processing parameters. In addition, glass-fiber reinforced products show a significant difference in the shrinkage perpendicular and parallel to the flow direction.		
PACKAGING		
25 Kg Bags, 1000 Kg Octabins, 750 Kg Boxes		

PROPERTIES	METHOD		UNIT	TYPICAL VALUES
PHYSICAL				
Density	ASTM D792	ISO 1183	gr/cm^3	**1.34**
Melt flow index MFI (300°C – 1.2 Kg)	ASTM D1238	ISO 1133	g/10’	**9**
Humidity Absorption – (Equilibrium value, in air, 23°C, 50% RH)	INTERNAL METHOD		%	**0.10**
Mould Shrinkage	INTERNAL METHOD		%	**0.2 ÷ 0.5**
Reinforcing filler	INTERNAL METHOD		%	**20**
MECHANICAL				
Tensile strength: stress at break	ASTM D638	ISO 527-1,-2	MPa	**70**
strain at break	ASTM D638	ISO 527-1,-2	%	**2.5**
Flexural modulus	ASTM D790	ISO 178	MPa	**5100**
IZOD notched impact strength, at 23 °C Specimen dimensions 62.5 mm x 12.7 mm x 3.2 mm	ASTM D256	-	J/m	**80**
THERMAL				
VICAT softening temperature at 49 N-120 °C/h	ASTM D1525/B	ISO 306/B	°C	**145**
Ball pressure test at 125±2 °C	BS 3456	IEC 60695-10-2	°C	**Passed**
ELECTRICAL				
Surface resistivity	ASTM D257	IEC 60093	Ohm	**1E16**
FLAMMABILITY				
Flammability UL94 (thickness 3.2 mm)	UL94		Class	**V0**
Flammability UL94 (thickness 1.6 mm)	UL94		Class	**V0**
Glow wire flammability index GWFI (thickness 3.2 mm)	IEC 60695-2-12		°C	**960**
Glow wire flammability index GWFI (thickness 1.6 mm)	IEC 60695-2-12		°C	**960**
Burning rate FMVSS302 (thicknesses 2.2/ 3.2 mm)	ISO 3795		mm/min	**Passed**

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