

OVALUX® REC FV20 R70

PC compound, glass fiber reinforced, flame retardand grade with post-industrial raw material FV20: 20% glass fiber reinforced grade.

R70 with at least 70% 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 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	280 ÷ 320 °C	80 ÷ 120 °C		
Recommended moisture level after drying ≤0.02%	Standard melt temperature: 300 °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		%	$0.2 \div 0.5$
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	ASTM D256	-	J/m	80
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
FLAMMABILITY				
Glow wire flammability index GWFI (thickness 2.2 mm)	IEC 60695-2-12		°C	850
Burning rate FMVSS302 (thicknesses 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.

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