

Nirion F20

Polycarbonate

Soredi S.p.a.

Message:

Polycarbonate reinforced with 20% glass fibre, for injection moulding.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.12	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	95.0	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Flexural Modulus ³	5500	MPa	ASTM D790
Flexural Strength ⁴ (Break)	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	80	J/m	
23°C, 3.20 mm	130	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	148	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	4.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Electric Strength (1.00 mm)	30	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.10		IEC 60250
Dissipation Factor (1 MHz)	9.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94	
1.60 mm	V-1		
3.20 mm	V-1		
Glow Wire Ignition Temperature	850	°C	IEC 60695-2-13
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Rate B (120°C/h), Loading 2 (50 N)		

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