

Nirion 1520/M

Polycarbonate

Soredi S.p.a.

Message:

Polycarbonate for general purpose, medium MFI, for injection moulding. With mould release agent. Available only in matt colours. On demand, it is available with UV stabilisation.

General Information			
Additive	Mold Release		
Features	General Purpose		
	Good Mold Release		
	Medium Flow		
Appearance	Colors Available		
	Matte Finish		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	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)	60		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	60.0	MPa	
Break	70.0	MPa	
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴ (Break)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	150	J/m	
0°C, 3.20 mm	400	J/m	
23°C, 3.20 mm	600	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	125	°C	ASTM D648
Vicat Softening Temperature	145	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	7.0E-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)	25	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.00		IEC 60250
Dissipation Factor (1 MHz)	9.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.20 mm	HB		
1.60 mm	V-2		
Glow Wire Ignition Temperature	850	°C	IEC 60695-2-13
NOTE			
1.	50 mm/min		
2.	50 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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