

Niplene F20 AGR

Polypropylene Homopolymer

Soredi S.p.a.

Message:

Polypropylene homopolymer, reinforced with 20% glass fibre chemically coupled to the polymeric matrix

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Chemically Coupled		
	Homopolymer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.30 to 0.70	%	
Across Flow	0.40 to 1.0	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	80.0	MPa	ASTM D638
Tensile Elongation ² (Break)	3.5	%	ASTM D638
Flexural Modulus ³	4500	MPa	ASTM D790
Flexural Strength ⁴ (Break)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	70	J/m	
23°C, 3.20 mm	110	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	152	°C	ASTM D648
Vicat Softening Temperature	138	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	3.0E-6	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Electric Strength (1.00 mm)	60	kV/mm	IEC 60243-1

Relative Permittivity (1 MHz)	2.70		IEC 60250
Dissipation Factor (1 MHz)	0.0		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Ignition Temperature (2.00 mm)	650	°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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