

Niplene F25

Polypropylene Homopolymer

Soredi S.p.a.

Message:

Polypropylene homopolymer, reinforced with 25% glass fibre chemically coupled to the polymer matrix

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Chemically Coupled		
	Homopolymer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.6	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.30 to 0.80	%	
Across Flow	0.50 to 0.80	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	60.0	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Flexural Modulus ³	4500	MPa	ASTM D790
Flexural Strength ⁴ (Break)	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	50	J/m	
23°C, 3.20 mm	80	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	143	°C	ASTM D648
Vicat Softening Temperature	125	°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+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)	1.0E-3		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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

