

Niplene C40

Polypropylene Homopolymer

Soredi S.p.a.

Message:

Polypropylene homopolymer, filled with 40% calcium carbonate, for the injection moulding of items of medium hardness and good aesthetical surface.

General Information			
Filler / Reinforcement	Calcium Carbonate,40% Filler by Weight		
Features	Good Surface Finish		
	Homopolymer		
	Medium Hardness		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.70 to 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	20.0	MPa	ASTM D638
Tensile Elongation ² (Break)	40	%	ASTM D638
Flexural Modulus ³	3000	MPa	ASTM D790
Flexural Strength ⁴ (Break)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	25	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	68.0	°C	ASTM D648
Vicat Softening Temperature	110	°C	ASTM D1525 ⁵
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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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



WECHAT