

Niloy 10

Polycarbonate + PBT

Soredi S.p.a.

Message:

PC-PBT alloy of very high impact resistance, even at low temperatures. Good resistance against chemical agents, for injection moulding.

General Information			
Features	Good Chemical Resistance		
	High Impact Resistance		
	Low Temperature Impact Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 to 2.2	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
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	55.0	MPa	
Break	50.0	MPa	
Tensile Elongation ² (Break)	80	%	ASTM D638
Flexural Modulus ³	2300	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	350	J/m	
0°C, 3.20 mm	500	J/m	
23°C, 3.20 mm	650	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	8.0E-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+16	ohms · cm	IEC 60093

Electric Strength (1.00 mm)	18	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.00		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	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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