

Nilac 010

Acrylonitrile Butadiene Styrene

Soredi S.p.a.

Message:

ABS suitable for injection moulding, medium flow, good impact resistance

General Information			
Features	Good Impact Resistance		
	Medium Flow		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	24	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	44.0	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	2400	MPa	ASTM D790
Flexural Strength ⁴ (Break)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	100	J/m	
23°C, 3.20 mm	200	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	92.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	9.0E-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+15	ohms · cm	IEC 60093
Electric Strength (1.00 mm)	30	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.80		IEC 60250
Dissipation Factor (1 MHz)	0.010		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.	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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