

Stirolan PS1

High Impact Polystyrene

Soredi S.p.a.

Message:

Impact resistant polystyrene, for general purpose, with very high MFI, suitable for the injection moulding.

General Information			
Features	General Purpose		
	Good Impact Resistance		
Uses	General Purpose		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	28.0	MPa	
Break	25.0	MPa	
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³	2300	MPa	ASTM D790
Flexural Strength ⁴ (Break)	52.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	40	J/m	
23°C, 3.20 mm	70	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	78.0	°C	ASTM D648
Vicat Softening Temperature	84.0	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value		Test Method
Relative Permittivity (1 MHz)	2.50		IEC 60250
Flammability	Nominal Value		Test Method
Flame Rating			UL 94

1.60 mm	HB
3.20 mm	HB
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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