

Stirolan RC

High Impact Polystyrene

Soredi S.p.a.

Message:

Polystyrene impact modified, very glossy surface, for injection moulding.

General Information			
Features	Good Impact Resistance		
	High Gloss		
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)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	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	26.0	MPa	
Break	24.0	MPa	
Tensile Elongation ² (Break)	40	%	ASTM D638
Flexural Modulus ³	2400	MPa	ASTM D790
Flexural Strength ⁴ (Break)	50.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	30	J/m	
23°C, 3.20 mm	60	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	78.0	°C	ASTM D648
Vicat Softening Temperature	85.0	°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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