

Sinkral® B 4 Milano

Acrylonitrile Butadiene Styrene

Versalis S.p.A.

Message:

B 4 Milano is an extrusion grade specially suitable in aesthetics applications.

It combines thermal characteristics and rheological properties which allow the extrusion of sheets also of large size with an excellent surface finishing (very low gels content).

Designation: Thermoplastic ISO 2580-ABS 1,EGN,105-04-16-20

Applications

Special grade for the realization of aesthetics goods that need typical ABS characteristics.

General Information			
Features	Low speed solidification crystal point Excellent appearance		
Uses	Sheet		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.60	%	Internal method
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	45.0	MPa	ASTM D638
Tensile Elongation ² (Break)	45	%	ASTM D638
Flexural Modulus ³	1850	MPa	ASTM D790
Flexural Strength ⁴	68.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	DIN 53453
Charpy Unnotched Impact Strength			DIN 53453
-40°C	No Break		DIN 53453
23°C	No Break		DIN 53453
Notched Izod Impact			
-40°C, 3.20 mm	100	J/m	ISO 180/4A
-20°C, 3.20 mm	130	J/m	ISO 180/4A

0°C, 3.20 mm	170	J/m	ISO 180/4A
23°C, 3.20 mm	220	J/m	ISO 180/4A
-40°C ⁵	9.0	kJ/m ²	ISO 180/1A
23°C ⁶	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	104	°C	ASTM D648
Vicat Softening Temperature			
--	109	°C	ISO 306/A120
--	104	°C	ISO 306/B120
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (1 kHz)	3.10		IEC 60250
Dissipation Factor (1 kHz)	0.015		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94
Glow Wire Ignition Temperature (3.0 mm)	650	°C	IEC 60695-2-13
Additional Information	Nominal Value		
Designation	Thermoplastic ISO 2580-ABS 1,EGN,105-04-16-20		
Extrusion	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 4.0	hr	
Melt Temperature	190 - 230	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		
5.	4 mm		
6.	4 mm		

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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

