

SCARAB SB

Urea Formaldehyde

BIP (Oldbury) Limited

Message:

Low cost material available in black and brown suitable for a wide range of applications, particularly Electrical and Closures

General Information			
Filler / Reinforcement	Cellulose		
Uses	Closures		
	Electrical/Electronic Applications		
Agency Ratings	BS 1322 UF A10		
	DIN 7708 Type 131.5		
	ISO 2112 UF A11		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Apparent Density	0.66	g/cm ³	ISO 60
Bulk Factor	2.3		ISO 171
Molding Shrinkage			ISO 2577
-- ¹	0.74	%	
-- ²	0.80	%	
Water Absorption			
Cold ³	180.0	mg	DIN 53472
Cold ⁴	57.0	mg	ISO 62
Hot ⁵	280.0	mg	ISO 62
Post Shrinkage			ISO 2577
-- ⁶	0.50	%	
-- ⁷	0.44	%	
Martens Temperature	120	°C	DIN 43458
Mechanical	Nominal Value	Unit	Test Method
Flexural Stress	96.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	2.0	kJ/m ²	ISO 180/C
Unnotched Izod Impact Strength	8.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	138	°C	ISO 75-2/Ae
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+11	ohms	DIN 53483
Volume Resistivity	1.0E+12	ohms·cm	DIN 53483
Electric Strength			IEC 60243-1
-- ⁸	7.8	kV/mm	
-- ⁹	6.2	kV/mm	
Dissipation Factor	0.034		DIN 53483
Comparative Tracking Index	> 600	V	IEC 60167
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Oxygen Index ¹⁰	33	%	ISO 4589-2

NOTE

- | | |
|-----|--------------------------|
| 1. | Preheated powder |
| 2. | Cold powder |
| 3. | 96 hr @ 23°C |
| 4. | 24 hr @ 23°C |
| 5. | 30 min @ 100°C |
| 6. | Cold powder |
| 7. | (48 hr) Preheated powder |
| 8. | (90°C) Preheated powder |
| 9. | Cold powder |
| 10. | Procedure A |

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