

Beetle INJXT, IN JX/G

Urea Formaldehyde
BIP (Oldbury) Limited

Message:

Material suitable for a wide range of household articles such as Electrical accessories. Compared to standard Injection urea, INJC offers an improved stability for mouldings exposed to elevated temperatures. Its lower viscosity gives improved mould filling characteristics.

General Information			
Filler / Reinforcement	Cellulose		
Features	Good Dimensional Stability		
	Low Viscosity		
Uses	Electrical/Electronic Applications		
	Household Goods		
Agency Ratings	BS 1322 UF A10		
	DIN 7708 Type 131.5		
	ISO 2112 UF A10		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage			ISO 2577
-- ¹	0.74	%	
-- ²	0.78	%	
Water Absorption			ISO 62
Cold ³	55.0	mg	
Hot ⁴	260.0	mg	
Post Shrinkage			ISO 2577
-- ⁵	0.43	%	
-- ⁶	0.41	%	
Martens Temperature	115	°C	DIN 43458
Mechanical	Nominal Value	Unit	Test Method
Flexural Stress	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	2.1	kJ/m ²	ISO 180/C
Unnotched Izod Impact Strength	8.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	133	°C	ISO 75-2/Ae
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
-- ⁷	9.3	kV/mm	
-- ⁸	8.0	kV/mm	
Dissipation Factor	0.025		IEC 60250
Comparative Tracking Index	> 600	V	IEC 60167
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
NOTE			

1.	Preheated powder
2.	Cold powder
3.	24 hr @ 23°C
4.	30 min @ 100°C
5.	Cold powder
6.	(48 hr) Preheated powder
7.	(90°C) Preheated powder
8.	Cold powder

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