

Technical Data Sheet

Vitamide AB18BK 1889/1



Polyamide 66

Product Description

General purpose, 40% Glass Bead filled Polyamide 66. Suitable for a wide range of applications this grade offers good balance dimensional stability, strength and rigidity. Available with: Enhanced UV (AB28) Heat stability (AB38) Oil Heat Glycol Hydrolysis resistance (AB68) UV and Heat resistance (AB78) Hydrolysis resistance (AB88) Colour matched compounds and customer specific performance requirements are available on request.

Processing Method Injection Molding

Filler/Reinforcement Glass Bead, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.44	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break	3	%	ISO 527-2
Flexural Modulus	4400	MPa	ISO 178
Tensile Stress at Break	85	MPa	ISO 527-2
Flexural Stress	130	MPa	ISO 178
Impact			
Notched Izod Impact Strength	4	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	>220	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	200	°C	ISO 75-2/A
DSC Melting Point	255	°C	ISO 3146
Electrical			
Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	1000000000 00000	ohm	IEC 60093
Flammable			
Burning Rate, (FMVSS 302)	<100	mm/min	FMVSS 302
Additional Information			
Water Absorption 23C/50RH	0.9	%	ISO 62
UL Information			
Flame Rating, (1.6 mm)	HB		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	60 to 120	°C