Technical Data Sheet

Vitamide AR3XBK 1758/1

Polyamide 66

Product Description

Vitamide AR3XBK 1758/1 is a Polyamide 66 Glass Fiber, 50% filled material and is typically used in Injection Molding applications. Features include: Heat Stabilized.

Processing Method	Injection Molding
Attribute	Heat Stabilized
Additive	Heat Stabilizer
Application	Closures
Filler/Reinforcement	Glass Fiber, 50%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.57	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield	240	MPa	ISO 527-2
Tensile Strain at Break	2.5	%	ISO 527-2
Flexural Modulus	13000	MPa	ISO 178
Flexural Stress	320	MPa	ISO 178
Impact			
Notched Izod Impact Strength	15	kJ/m²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	260	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	255	°C	ISO 75-2/A
DSC Melting Point	260	°C	ISO 3146
Electrical			
Dielectric Strength, (2.00 mm)	35	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	450	V	IEC 60112
Surface Resistivity	1000000000 00000	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
UL Information			
Flame Rating	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