Technical Data Sheet

Vitamide AR86BK 1727/2

Polyamide 66

Product Description

Vitamide AR86BK 1727/2 is a Polyamide 66 Glass Fiber, 30% filled material. Features include: Hydrolytically Stable.

Attribute	Hydrolytically Stable
Forms	Pellets
Appearance	Black
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.37	g/cm³	ISO 1183
Density - Specific Gravity	1.37	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Break	200	MPa	ASTM D638
Tensile Strain at Break	3	%	ISO 527-2
Flexural Modulus	8500	MPa	ASTM D790
Tensile Elongation at Break	3	%	ASTM D638
Tensile Stress at Break	200	MPa	ISO 527-2
Tensile Modulus	10000	MPa	ISO 527-1
Flexural Stress	260	MPa	ISO 178
Flexural Strength at Break	260	MPa	ASTM D790
Impact			
Charpy Impact Strength - Unnotched	70	kJ/m²	ISO 179
Notched Izod Impact Strength, (Type 1, Notch A)	11	kJ/m²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	240	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	235	°C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	235	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	240	°C	ASTM D648
Melting Temperature	256	°C	
Coefficent of Linear Thermal Expansion (CLTE), Flow	2.5E-05	cm/cm/°C	ASTM D696
Electrical			
Volume Resistivity	1E+15	ohm*cm	ASTM D257
Dielectric Strength	24	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	450	V	IEC 60112

Flammable			
Oxygen Index	23	%	ASTM D2863
Additional Information			
Water Absorption 24h/23C	0.8	%	ISO 62
Water Absorption at 24 hrs, (23 °C)	0.80	%	ASTM D570
UL Information			
Flame Rating	HB		UL 94