

Technical Data Sheet

Vitamide BR36BK 9006

Polyamide 6

Product Description

Vitamide BR36BK 9006 is a Polyamide 6 Glass Fiber, 30% filled material.

Appearance Black
Filler/Reinforcement Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.35	g/cm ³	ISO 1183
Density - Specific Gravity	1.35	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Break	145	MPa	ASTM D638
Tensile Strain at Break	3.5	%	ISO 527-2
Flexural Modulus	7700	MPa	ASTM D790
Tensile Elongation at Break	3.5	%	ASTM D638
Tensile Stress at Break	145	MPa	ISO 527-2
Flexural Stress	210	MPa	ISO 178
Flexural Strength at Break	210	MPa	ASTM D790
Impact			
Charpy Impact Strength - Notched	13	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched	65	kJ/m ²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	215	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	205	°C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	205	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	215	°C	ASTM D648
DSC Melting Point	220	°C	ISO 1218
Peak Melting Temperature	220	°C	ASTM D2117
Coefficient of Linear Thermal Expansion (CLTE), Flow	3.2E-05	cm/cm/°C	ASTM D696
Electrical			
Volume Resistivity	1E+15	ohm*cm	ASTM D257
Dielectric Strength	60	kV/mm	ASTM D149
Comparative Tracking Index (CTI), (Solution A)	550	V	IEC 60112
Flammable			
Oxygen Index	22	%	ISO 4589-2
Additional Information			
Water Absorption 24h/23C	1.4	%	ISO 62
Water Absorption at 24 hrs, (23 °C)	1.4	%	ASTM D570
UL Information			
Flame Rating	HB		UL 94