

Technical Data Sheet

Vitamide AR34BK 1813/1



Polyamide 66

Product Description

Vitamide AR34BK 1813/1 is a Polyamide 66 Glass Fiber, 20% filled material. Features include: Heat Stabilized.

Attribute	Heat Stabilized
Forms	Pellets
Appearance	Black
Additive	Heat Stabilizer
Filler/Reinforcement	Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.29	g/cm ³	ISO 1183
Density - Specific Gravity	1.29	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Break	140	MPa	ASTM D638
Tensile Strain at Break	4	%	ISO 527-2
Flexural Modulus	6400	MPa	ISO 178
Tensile Elongation at Break	4	%	ASTM D638
Tensile Stress at Break	140	MPa	ISO 527-2
Flexural Stress	205	MPa	ISO 178
Flexural Strength at Break	205	MPa	ASTM D790
Impact			
Charpy Impact Strength - Unnotched	7	kJ/m ²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	255	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	250	°C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	250	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	255	°C	ASTM D648
Melting Temperature	260	°C	
Coefficient of Linear Thermal Expansion (CLTE), Flow	3E-05	cm/cm/°C	ASTM D696
Electrical			
Volume Resistivity	1E+15	ohm*cm	IEC 60093
Dielectric Strength	32	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	450	V	IEC 60112
Flammable			
Oxygen Index	24	%	ASTM D2863
Additional Information			
Water Absorption 24h/23C	1	%	ISO 62
Water Absorption at 24 hrs, (23 °C)	1.0	%	ASTM D570
UL Information			
Flame Rating	HB		UL 94