

## 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.

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	1.29	g/cm <sup>3</sup>	ISO 1183
Density - Specific Gravity	1.29	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Unnotched	7	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
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
<b>Electrical</b>			
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
<b>Flammable</b>			
Oxygen Index	24	%	ASTM D2863
<b>Additional Information</b>			
Water Absorption 24h/23C	1	%	ISO 62
Water Absorption at 24 hrs, (23 °C)	1.0	%	ASTM D570
<b>UL Information</b>			
Flame Rating	HB		UL 94