

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.

Regulatory Status

For regulatory compliance information, see *Vitamide* AR34BK 1813/1 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	Europe
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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