

Technical Data Sheet

Vitamide AR86BK 1727/2 FERNOX



Polyamide 66

Product Description

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

Regulatory Status

For regulatory compliance information, see Vitamide AR86BK 1727/2 FERNOX [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	Europe
Attribute	Hydrolytically Stable
Forms	Pellets
Appearance	Black
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.37	g/cm ³	ISO 1183
Density - Specific Gravity	1.37	g/cm ³	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/m ²	ISO 179
Notched Izod Impact Strength, (Type 1, Notch A)	11	kJ/m ²	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	
Coefficient 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

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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