

Technical Data Sheet

Vitamide AR3XBK 8510



Polyamide 66

Product Description

Vitamide AR3XBK 8510 is a Polyamide 66 Glass Fiber, 50% filled material and is typically used in Injection Molding applications. Features include: Heat Stabilized.

Regulatory Status

For regulatory compliance information, see *Vitamide* AR3XBK 8510 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Limited Issue
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Heat Stabilized
Additive	Heat Stabilizer
Application	Closures
Filler/Reinforcement	Glass Fiber, 50%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.57	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	240	MPa	ISO 527-2
Tensile Strain at Break	2.5	%	ISO 527-2
Flexural Modulus	13000	MPa	ISO 178
Flexural Stress	320	MPa	ISO 178
Impact			
Notched Izod Impact Strength	15	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	260	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	255	°C	ISO 75-2/A
DSC Melting Point	260	°C	ISO 3146
Electrical			
Dielectric Strength, (2.00 mm)	35	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	450	V	IEC 60112
Surface Resistivity	10000000000 00000	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
UL Information			
Flame Rating	HB		UL 94



Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	60 to 120	°C

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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