

Technical Data Sheet

Vitamide 66 AS10 BLK 6714



Polyamide 66

Product Description

Medium viscosity Polyamide 66

Regulatory Status

For regulatory compliance information, see Vitamide 66 AS10 BLK 6714 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

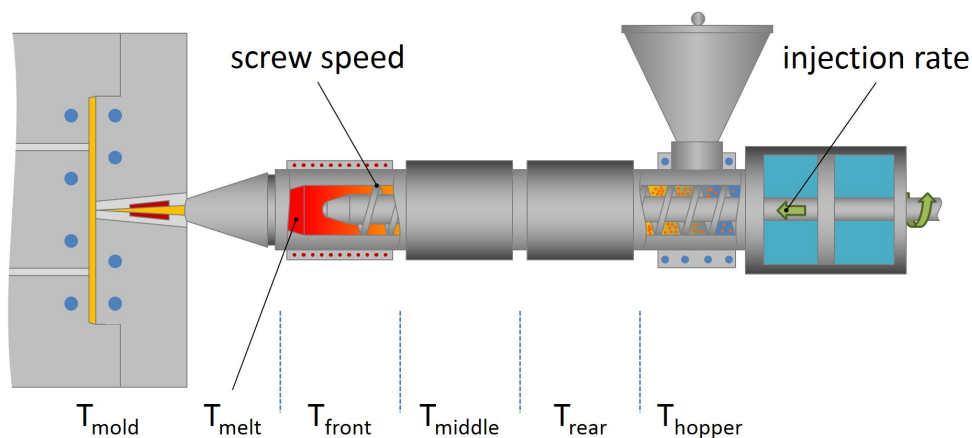
Status Commercial: Active

Availability Africa-Middle East; Asia-Pacific; Europe; Latin America; North America

Processing Method Injection Molding

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.13	g/cm ³	ISO 1183
Viscosity Number, (96% H2SO4 (Sulphuric Acid))	145	cm ³ /g	ISO 307
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min) - Conditioned	60.0	MPa	ISO 527-2
Nominal Tensile Strain at Break			
(50 mm/min, Type 1A) - Conditioned	30	%	ISO 527-2
(50 mm/min, Type 1A)	4.0	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min) - Conditioned	18	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 50 mm/min)	85.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	50.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	3400	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	1700	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	100	MPa	ISO 178
(2.0 mm/min, 6.5%)	130	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	12	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	90	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	70	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Notched Izod Impact Strength	5	kJ/m ²	ISO 180
Thermal			

Vicat Softening Temperature			
(B (50N), 50 °C/h)	240	°C	ISO 306
(A (10N), 50 °C/h)	>250	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	220	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	77	°C	ISO 75-2/A
DSC Melting Point	260	°C	ISO 3146
Electrical			
Dielectric Strength	28	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	1E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	0.0	mm/min	ISO 3795
(2.00 mm)	0.0	mm/min	FMVSS 302
Oxygen Index	27	%	ISO 4589-2
Additional Information			
Water Absorption 23C/50RH	1.5	%	ISO 62
UL Information			
Flame Rating	V-2		UL 94



Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	270 to 290	°C
Mold Temperature	60 to 100	°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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