

Promyde® B33 LN

Polyamide 6

NUREL, S.A.

Message:

Promyde B33 LN is a high viscosity lubricated and nucleated Polyamide 6.

CHARACTERISTICS

Promyde B33 LN is a high viscosity polyamide 6 lubricated for injection moulding.

APPLICATIONS

Promyde B33 LN's high viscosity provides a more resilient unfilled polyamide 6 over standard viscosity unfilled. Promyde B33 LN is suitable for the production of wheels and castors that support heavy loads. Its natural white colour and added nucleant for improved cooling make it an excellent alternative for stronger wheel and castor production over standard viscosity polyamide.

General Information				
Additive		Nucleating agent		
		Lubricant		
Features		Nucleated		
		Lubrication		
		Viscosity, High		
Uses		Wheels		
Appearance		White		
		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.13	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	35.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				
Vertical flow direction	0.80 - 1.1	--	%	
Flow direction	0.90 - 1.1	--	%	
Water Absorption				ISO 62
Saturated, 23°C	9.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	3.0	--	%	ISO 62
Viscosity Number	203	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3350	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	85.0	40.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	25	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	50	> 50	%	ISO 527-2/50

Flexural Modulus ¹ (23°C)	2850	1000	MPa	ISO 178
Flexural Stress ² (23°C)	110	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.7	35	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	197	--	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) ³	222	--	°C	ISO 3146
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 80°C	7.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	1.0E-4	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.50	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.030	0.30		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	V-2	--		UL 94
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Drying Time	4.0 - 6.0		hr	
Processing (Melt) Temp	250 - 270		°C	
Mold Temperature	40.0 - 80.0		°C	
Injection Rate	Moderate-Fast			
Injection instructions				
Back Pressure: moderate				
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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