

Promyde® B30 P

Polyamide 6

NUREL, S.A.

Message:

Promyde B30 P is a Polyamide 6 UL certified, heat stabilised, nucleated and lubricated.

CHARACTERISTICS

Promyde B30 P is a polyamide 6 UL certified, heat stabilized, lubricated and nucleated for fast cycle injection moulding.

APPLICATIONS

Promyde B30 P allows a fast and efficient mould filling, a very fast cooling time and an easy mould release, which combined with its excellent mechanical and thermal properties make it suitable for a wide range of industrial, automotive and electrical applications.

General Information				
UL YellowCard		E341743-100985640		
Additive		Nucleating agent		
		heat stabilizer		
		Lubricant		
Features		Nucleated		
		Fast molding cycle		
		Thermal Stability		
		Lubrication		
		Good demoulding performance		
Uses		Electrical/Electronic Applications		
		Electrical components		
		Engineering accessories		
		Application in Automobile Field		
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)	145	--	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	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus (23°C)	3300	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)	3.5	25	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	18	> 50	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	2800	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				ISO 179/1eA
-30°C	4.5	--	kJ/m ²	ISO 179/1eA
23°C	5.0	30	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	187	--	°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
Glow Wire Flammability Index (1.50 mm)	850	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.50 mm)	725	--	°C	IEC 60695-2-13
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

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|----|------------|
| 1. | 2.0 mm/min |
| 2. | 2.0 mm/min |
| 3. | 10°C/min |

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