

Promyde® B30 U

Polyamide 6

NUREL, S.A.

Message:

Promyde B30 U is a Polyamide 6 flame retardant, UL certified, heat stabilised, nucleated and lubricated.

CHARACTERISTICS

Promyde B30 U is an improved flame retardant polyamide 6, UL certified, heat stabilized, lubricated and nucleated for fast cycle injection moulding. Its main characteristics are easy flowing, easy mould filling and very fast cooling time whilst maintaining excellent polyamide 6 mechanical properties.

APPLICATIONS

Due to its improved Glow Wire Flammability Index of 960°C, easy flow characteristics and very fast cooling time; Promyde B30 U is suitable for multi cavity and single cavity injection moulding of flame resistant parts such as components used in automotive, electrical, electronics, or technical parts.

General Information				
UL YellowCard		E341743-101216689		
Additive		Nucleating agent		
		heat stabilizer		
		Lubricant		
		Flame retardancy		
Features		Nucleated		
		Fast molding cycle		
		Good formability		
		Good liquidity		
		Thermal Stability		
		Lubrication		
		Good demoulding performance		
		Flame retardancy		
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 (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)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.50 mm)	775	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	< 50.0		°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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