

Promyde® B30 P2 U0

Polyamide 6

NUREL, S.A.

Message:

Promyde B30 P2 U0 is a UL certified unfilled injection moulding Polyamide 6 flame retardant (Halogen free), heat stabilized.

CHARACTERISTICS

Promyde B30 P2 U0 is a polyamide 6 with high mechanical strength, heat stabilized, lubricated and nucleated for injection moulding. Its halogen free flame retardant system enhances its flame behavior to V0 - UL certified .

APPLICATIONS

Promyde B30 P2 U0 allows a fast and efficient mould filling, and an easy mould release, that combined with its excellent mechanical properties, and its flame retardant properties make it suitable for components specially used in electrical and electronics industries.

General Information				
UL YellowCard		E341743-101216688		
Additive		Nucleating agent		
		heat stabilizer		
		Lubricant		
		Flame retardancy		
Features		Nucleated		
		High strength		
		Fast molding cycle		
		Thermal Stability		
		Lubrication		
		Good demoulding performance		
		Halogen-free		
		Flame retardancy		
Uses		Electrical/Electronic Applications		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.18	--	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	9.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Viscosity Number	125	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus (23°C)	3800	1500	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)	9.0	> 50	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	3400	1200	MPa	ISO 178
Flexural Stress ² (23°C)	116	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	--	kJ/m ²	ISO 179/1eU
23°C	60	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	--	°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	9.0E-4	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	9.0E-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-0	--		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	< 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 |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

