

Promyde® B30 P2 M30

Polyamide 6

NUREL, S.A.

Message:

Promyde® B30 P2 M30 is a Polyamide 6 injection moulding grade with 30% mineral filler and heat stabilised.

CHARACTERISTICS

Promyde B30 P2 M30 is distinguished by high mechanical strength, hardness, rigidity and thermo stability. Parts made from Promyde B30 P2 M30 have particularly high dimensional stability.

APPLICATIONS

Promyde B30 P2 M30 is used in a wide range of applications where a combination of mechanical properties and dimensional stability is needed.

Mineral filler reinforced grades are suitable for housings, supports, industrial articles and electrical insulating parts.

General Information				
Filler / Reinforcement		Mineral filler, 30% filler by weight		
Additive		heat stabilizer		
Features		Good dimensional stability		
		Rigidity, high		
		High strength		
		Thermal Stability		
		Thermal stability, good		
		Fill		
		High hardness		
Uses		Electrical/Electronic Applications		
		Electronic insulation		
		Industrial application		
		Shell		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	45.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturated, 23°C	6.7	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.1	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5200	2000	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	80.0	50.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	3.0	7.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	3900	2000	MPa	ISO 178

Flexural Stress ² (23°C)	94.0	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	ISO 179/1eA
23°C	5.3	25	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	215	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°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	2.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	6.0E-5	--	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)	3.80	6.20		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Drying Time	4.0 - 6.0		hr	
Processing (Melt) Temp	260 - 290		°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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