

Promyde® B30 P N

Polyamide 6

NUREL, S.A.

Message:

Promyde® B30 P N is a Polyamide 6, heat stabilised and lubricated.

CHARACTERISTICS

Promyde B30 P N is a polyamide 6 heat stabilized and lubricated for injection moulding giving a higher impact resistance to standard viscosity nucleated polyamides.

APPLICATIONS

Promyde B30 P N is resistant to warpage during post injection cooling and its higher impact over standard viscosity polyamide makes it suitable for symmetrical components such as wheels and castors. Promyde B30 P N also has excellent colourability.

General Information				
UL YellowCard		E341743-100985640		
Additive		heat stabilizer		
		Lubricant		
Features		Bending resistance		
		Impact resistance, good		
		Good formability		
		Good coloring		
		Thermal Stability		
		Lubrication		
Uses		Wheels		
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	1.1 - 1.4	--	%	
Flow direction	1.2 - 1.4	--	%	
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)	3200	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)	2700	1000	MPa	ISO 178
Flexural Stress ² (23°C)	105	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	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	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)	0.023	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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