

Promyde® B30 P2 MI

Polyamide 6

NUREL, S.A.

Message:

Promyde B30 P2 MI is a Polyamide 6 impact modified, heat stabilised with equilibrated mechanical properties and optimal flow behaviour.

CHARACTERISTICS

Promyde B30 P2 MI is a polyamide 6 impact modified and heat stabilized.

APPLICATIONS

Promyde B30 P2 MI allows a fast and efficient mould filling, and easy mould release, that combined with its excellent mechanical and impact resistant properties make it suitable for applications sensitive to breakage by impact (e.g. housings, fittings, small parts and anchors).

General Information				
Additive		Impact modifier heat stabilizer		
Features		Impact modification Impact resistance, good Fast molding cycle Good formability Good liquidity Thermal Stability Good demoulding performance		
Uses		Machine/mechanical parts Accessories Shell		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.10	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	100	--	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	8.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Viscosity Number ¹ (H2SO4 (Sulphuric Acid))	125	--	cm ³ /g	ISO 960
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2800	1100	MPa	ISO 527-2/1

Tensile Stress (Yield, 23°C)	75.0	35.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	5.0	25	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	25	180	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2300	750	MPa	ISO 178
Flexural Stress ³ (23°C)	85.0	25.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	ISO 179/1eA
23°C	14 kJ/m ²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	150	--	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	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)	0.026	0.30		IEC 60250
Comparative Tracking Index	600	--	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	250 - 270		°C	
Mold Temperature	40.0 - 80.0		°C	
Injection Rate	Moderate-Fast			
Injection instructions				
Back pressure: moderate				
NOTE				

1.	0,005 g/ml H2SO4
2.	2.0 mm/min
3.	2.0 mm/min
4.	10°C/min

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