

Tarnamid® T-30

Polyamide 6

Grupa Azoty S.A.

Message:

Tarnamid T-30 there is high viscosity polyamide 6.

General Information				
Features		High Viscosity		
Uses	Bi-axially Oriented Film			
	Film			
	Food Packaging			
	Multilayer Film			
	Packaging			
	Profiles			
	Rods			
	Thick-walled Parts			
	Tubing			
Agency Ratings	EU 2002/72/EC			
	EU 2004/1/EC			
	EU 2004/19/EC			
	EU 2005/79/EC			
	EU 2007/19/EC			
Appearance	Natural Color			
	White			
Processing Method	Extrusion			
	Film Extrusion			
	Injection Molding			
	Profile Extrusion			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.4	--	%	
Flow : 2.00 mm	1.4	--	%	
Water Absorption				ISO 62

Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Viscosity Number	240	--	cm ³ /g	ISO 307
Relative Viscosity - H ₂ SO ₄ (25°C)	3.90	--		
Limit of Temperature - a few hours operation	< 180	--	°C	
Temperature Index				
20000 hr	70	--	°C	
5000 hr	85	--	°C	
Burning Rate	+	--		FMVSS 302
ISO Type	PA6, EN, 22-030	--		ISO 1874
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	140	60.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	78.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 100	> 280	%	ISO 527-2/50
Flexural Modulus ¹	2400	900	MPa	ISO 178
Flexural Stress ²	82.0	28.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	6.0	13	kJ/m ²	
-30°C	3.0	3.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	No Break	No Break		
-30°C	No Break	No Break		
Notched Izod Impact Strength	4.0	10	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	195	180	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	1.1E-4	--	cm/cm/°C	
Transverse : 23 to 55°C	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+16	1.0E+14	ohms	IEC 60093

Volume Resistivity	1.0E+16	1.0E+13	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	21	24	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.50	4.20		IEC 60250
Dissipation Factor (1 Hz)	0.022	0.20		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	750	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Suggested Max Moisture	< 0.10		%	
Suggested Max Regrind	50		%	
Processing (Melt) Temp	260 to 280		°C	
Mold Temperature	60.0 to 80.0		°C	
Injection Pressure	80.0 to 110		MPa	
Injection Rate	Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/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

