

Tarnamid® T- 27 GF30 TF15

Polyamide 6
Grupa Azoty S.A.

Message:

Tarnamid T-27 GF30TF15 is tribological modified grade, which cause decrease coefficient of friction and wear.

General Information				
Features		Good Wear Resistance		
		Low Friction		
Uses		Appliances		
		Automotive Applications		
		Electrical/Electronic Applications		
		Household Goods		
Appearance		Black		
		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	15.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.1	--	%	
Flow : 2.00 mm	0.10	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	160	130	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	8300	MPa	ISO 527-2/5
Tensile Stress (Yield)	160	130	MPa	ISO 527-2/5
Tensile Strain (Break)	6.0	7.0	%	ISO 527-2/5
Flexural Modulus ¹	9000	6500	MPa	ISO 178
Flexural Stress ²	240	185	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (-30°C)	15	18	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	200	140	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	210	190	°C	ISO 75-2/A
Vicat Softening Temperature	215	205	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
Limit of Temperature - a few hours operation	< 180	--	°C	
Temperature Index				
20000 hr	110	--	°C	
5000 hr	120	--	°C	
ISO Type	PA6, MHR, 14-080, GF30Z15	--		ISO 1874
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°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	240 to 260		°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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