

Tarnamid® T- 27 GF35 P5

Polyamide 6

Grupa Azoty S.A.

Message:

Tarnamid T-27 GF35P5 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	Nominal Value	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	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	270	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2/1
Tensile Stress (Yield)	160	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ¹	10000	MPa	ISO 178
Flexural Stress ²	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	8.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A

Vicat Softening Temperature	215	°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
Flammability	Nominal Value	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	Nominal Value	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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