

Tarnamid® T- 27 TSL 4

Polyamide 6

Grupa Azoty S.A.

Message:

Impact modified.

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Household Goods		
Appearance	Black		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	70.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	1.5	%	
Flow : 2.00 mm	2.0	%	
Water Absorption			ISO 62
Saturation, 23°C	9.5	%	
Equilibrium, 23°C, 50% RH	3.0	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	45.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	150	%	ISO 527-2/50
Flexural Modulus ¹	1600	MPa	ISO 178
Flexural Stress ²	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	70	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	°C	ISO 75-2/A
Vicat Softening Temperature	170	°C	ISO 306/B

Melting Temperature	221	°C	ISO 11357-3
Limit of Temperature - a few hours operation	< 160	°C	
Temperature Index			
20000 hr	70	°C	
5000 hr	85	°C	
ISO Type	PA6-HI, MR, 14020		ISO 1874
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
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	Moderate		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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