

Tarnamid® T- 27 MCS I8

Polyamide 6

Grupa Azoty S.A.

Message:

High viscosity polyamide 6, impact modified.

General Information				
Additive		Impact Modifier		
Features		High Viscosity		
		Impact Modified		
Uses		Appliances		
		Automotive Applications		
		Electrical/Electronic Applications		
		Household Goods		
Appearance		Black		
		Colors Available		
		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	20.0	--	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	2.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	135	60.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2600	1000	MPa	ISO 527-2/1
Tensile Stress (Yield)	72.0	40.0	MPa	ISO 527-2/50
Tensile Strain (Break)	50	> 200	%	ISO 527-2/50
Flexural Modulus ¹	2100	700	MPa	ISO 178
Flexural Stress ²	76.0	20.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	12	20	kJ/m ²	
-30°C	8.0	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	No Break	No Break		
-30°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	180	--	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
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
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
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	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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