Tarnamid® T- 27 MTR

Polyamide 6

Grupa Azoty S.A.

Message:

Tarnamid T-27 MTR there is translucent polyamide 6, with limited translucency up to maximum 2,5 mm of parts wall thickness.

General Information				
Uses	Appliances Automotive Applications Electrical/Electronic Applications Household Goods			
Appearance	Natural Color Translucent			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.13	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	110	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	0.30	--	%	
Flow : 2.00 mm	0.15	--	%	
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	80.0	45.0	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2600	1300	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	50	> 100	%	ISO 527-2/50
Flexural Modulus [1]	2200	1000	MPa	ISO 178
Flexural Stress [2]	85.0	30.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (-30°C)	5.5	13	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	120	75	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	120	--	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
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, MT, 14-030	--		ISO 1874
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)	30	24	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.50	4.20		IEC 60250
Dissipation Factor (1 Hz)	0.018	0.10		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	V-2	--		
3.20 mm	V-2	--		
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	240 to 260		°C	
Mold Temperature	40.0 to 60.0		°C	
Injection Pressure	80.0 to 110		MPa	
Injection Rate	Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

Recommended distributors for this material

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