Tarnamid® T-27 MCS V2

Polyamide 6

Grupa Azoty S.A.

Message:

Tarnamid®T-27 MCS V2 is a polyamide 6 (nylon 6) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.
Tarnamid®The main features of T-27 MCS V2 are:
flame retardant/rated flame
chemical resistance
Flame Retardant
high hardness
Hard

General Information	
Features	Low friction coefficient
	Optical
	Shock absorption
	Solvent resistance
	Impact resistance, high
	Good strength
	Good wear resistance
	Good chemical resistance
	alkali resistance
	Fatigue resistance
	Heat resistance, high
	acid resistance
	Compliance of Food Exposure
	High hardness
	Medium hardness
	Flame retardancy
Forms	Particle
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/5.0 kg)	140	--	g/10 min	ISO 1133
Molding Shrinkage	1.5	1.3	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.5	--	%	ISO 62
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	150	70.0	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3600	1800	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	20	--	%	ISO 527-2
Flexural Stress	95.0	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	80	--	kJ/m²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	200	180	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	IEC 60093
Volume Resistivity	1.0E+14	--	ohms·cm	IEC 60093
Dielectric Strength	30	--	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94

Additional Information

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Glow Wire Resistance, PN-EN-60695-2-1, 2mm: 850Note: All electrical properties were tested in accordance with the IEC test standard.Comparative Track Index, IEC 112, Solution A: 600

Injection	Dry	Unit
Drying Temperature	80.0 - 100	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	230 - 260	°C
Mold Temperature	60.0 - 80.0	°C
Injection Pressure	80.0 - 130	MPa
Injection Rate	Fast	

Recommended distributors for this material

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