Tarnamid® T- 27 CF20

Polyamide 6

Grupa Azoty S.A.

Message:

It is 20% carbon fibre reinforced polyamide 6 compound, heat stabilised, good conductive and electrostatic properties

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Antistatic Electrically Conductive Heat Stabilized		
Uses	Mining Applications		
Appearance	Black Natural Color		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	40.0	cm³/10min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	210	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	14200	MPa	ISO 527-2/1
Tensile Stress (Yield)	175	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus [1]	11500	MPa	ISO 178
Flexural Stress [2]	240	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	52	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	8.5	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Vicat Softening Temperature	215	°C	ISO 306/B
Melting Temperature	221	°C	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+6	ohms	IEC 60093

Volume Resistivity	1.0E+6	ohms·cm	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Burning Rate	+		FMVSS 302
ISO Type	PA6, MHRZ, 14-140, CF20		ISO 1874
Injection	**Nominal Value**	**Unit**	
Drying Temperature	< 80.0	°C	
Suggested Max Moisture	< 0.10	%	
Suggested Max Regrind	10	%	
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		

Recommended distributors for this material

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