

TAROMID B 280 G6 Y0

Polyamide 6

Taro Plast S.p.A.

Message:

TAROMID B 280 G6 Y0 is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and is available in Europe. Characteristics include:

- Flame Rated
- Flame Retardant
- Good Dimensional Stability
- Halogen Free

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Flow		
	Halogen Free		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 23°C, 3.20 mm	0.40 to 0.70	%	
Flow : 23°C, 3.20 mm	0.25 to 0.35	%	
Water Absorption			ISO 62
23°C, 24 hr	1.5	%	
Saturation, 23°C	7.0	%	
Granule Humidity ¹	< 0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8800	MPa	ISO 527-2/1
Tensile Stress (Break)	130	MPa	ISO 527-2/50
Tensile Strain (Break)	2.5	%	ISO 527-2/50
Flexural Modulus ²	8300	MPa	ISO 178
Flexural Stress ³	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	90	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	7.50	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed)	215	°C	ISO 75-2/A
Vicat Softening Temperature	220	°C	ISO 306/B50
Ball Pressure Test (170°C)	Pass		IEC 60695-10-2
Melting Temperature	222	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	30	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0 to 90.0	°C	
Pre-heater	80.0 to 100	°C	
Drying Time			
--	1.0	hr	
Pre-heater	3.0	hr	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	80.0 to 110	°C	
Injection Rate	Moderate		
NOTE			
1.	TARO 002		
2.	1.0 mm/min		
3.	1.0 mm/min		
4.	120°C/hr		

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