

TAROMID B 280 G3 MT5

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6 fibers/mineral 40% reinforced, good dimensional stability combined to good mechanical properties.
Available: all colors, heat stabilised (H), UV stabilized (L), with release agent (W).

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
	UV Stabilizer		
Features	Good Dimensional Stability		
	Good Mold Release		
	Good UV Resistance		
	Heat Stabilized		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.25 to 0.40	%	
Across Flow	0.30 to 0.50	%	
Water Absorption			
23°C, 24 hr	0.70	%	ASTM D570, ISO 62
Saturation	5.5	%	ASTM D570
Saturation, 23°C	5.5	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7400	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	100	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	7000	MPa	ASTM D790, ISO 178
Flexural Stress			
--	145	MPa	ISO 178
Break	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ¹ (23°C)	5.5	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	60	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	190	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50, ASTM D1525 2
Melting Temperature	222	°C	ASTM D211, ISO 121
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0 to 90.0	°C	
Pre-heater	80.0 to 100	°C	
Drying Time			
--	2.0	hr	
Pre-heater	3.0	hr	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	80.0 to 110	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	6x4x50 mm		
2.	Rate A (50°C/h), Loading 2 (50 N)		

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