

TAROMID B 280 G10

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6 glass fiber reinforced 50%, high mechanical properties, very high dimensional stability and low shrinkage.
Available: all colors, UV stabilized (L), heat stabilized (H), release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
	UV Stabilizer		
Features	Good Dimensional Stability		
	Good Mold Release		
	Good UV Resistance		
	Heat Stabilized		
	Low Shrinkage		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56 to 1.58	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.10 to 0.20	%	
Across Flow	0.30 to 0.40	%	
Water Absorption			
23°C, 24 hr	0.60 to 0.70	%	ASTM D570, ISO 62
Saturation	4.2	%	ASTM D570
Saturation, 23°C	4.2	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	215	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus	13500	MPa	ASTM D790, ISO 178

Flexural Stress			
--	340	MPa	ISO 178
Break	340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	18	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	160	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	218	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ²	110	°C	
-- ³	130	°C	
-- ⁴	140	°C	
-- ⁵	180	°C	
Vicat Softening Temperature	218	°C	ISO 306/B50, ASTM D1525 6
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	222	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	2.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	7.0E+15	ohms · cm	ASTM D257
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	25	%	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	230 to 260	°C	
Mold Temperature	90.0 to 120	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	6x4x50 mm		
2.	20000 hrs		
3.	Heat Stabilized, 20000 hrs		
4.	Short Term		
5.	Heat Stabilized, Short Term		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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