TAROMID B 280 MT6

Polyamide 6

Taro Plast S.p.A.

Message:

PA6 mineral filled 30%, good dimensional stability, uniform shrinkage in all directions, good surface finish and good mechanical and thermal properties. Available: all colors, UV-stabilized (L), heat-stabilized (H), release agent (W).

General Information			
Filler / Reinforcement	Mineral,30% Filler by Weight		
Additive	Heat Stabilizer Mold Release UV Stabilizer		
Features	Good Dimensional Stability Good Mold Release Good Surface Finish Good UV Resistance Heat Stabilized		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.36 to 1.38	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.60	%	
Across Flow	0.40 to 0.60	%	
Water Absorption			
23°C, 24 hr	0.90 to 1.0	%	ASTM D570, ISO 62
Saturation	6.5	%	ASTM D570
Saturation, 23°C	6.5	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6800	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	80.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.6	%	ASTM D638, ISO 527-2
Flexural Modulus	6500	MPa	ASTM D790, ISO 178

Flexural Stress			
--	126	MPa	ISO 178
Break	126	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [1] (23°C)	4.5	kJ/m²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	42	J/m	ISO 180, ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	185	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- [2]	70.0	°C	
-- [3]	100	°C	
-- [4]	110	°C	
-- [5]	150	°C	
Vicat Softening Temperature	210	°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)	4.5E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Comparative Tracking Index (Solution A)	600	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	24	%	ASTM D2863
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 270	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	6x4x50 mm		
2.	20000 hrs		
3.	Short Term		
4.	Heat Stabilized, 20000 hrs		
5.	Heat Stabilized, Short Term		
6.	Rate A (50°C/h), Loading 2 (50 N)		

Recommended distributors for this material

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