

TAROMID B 280 G4

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6 glass fiber reinforced 20%.
Available: all colors, UV stabilized (L), heat stabilized (H), release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
	UV Stabilizer		
Features	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	1.24 to 1.26	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	14	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.50	%	
Across Flow	0.70 to 0.90	%	
Water Absorption			
23°C, 24 hr	1.1	%	ASTM D570, ISO 62
Saturation	7.0	%	ASTM D570
Saturation, 23°C	7.0	%	ISO 62
Granule Humidity	< 0.15	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	135	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	4.0	%	ASTM D638, ISO 527-2
Flexural Modulus	6000	MPa	ASTM D790, ISO 178
Flexural Stress			
--	170	MPa	ISO 178

Break	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	6.2	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ²			ASTM D256, ISO 179
-20°C	28	kJ/m ²	
23°C	38	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	70	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
Continuous Use Temperature			IEC 60216
-- ³	90.0	°C	
-- ⁴	130	°C	
-- ⁵	140	°C	
-- ⁶	180	°C	
Vicat Softening Temperature			
--	216	°C	ASTM D1525, ISO 306/A50 ⁷
--	208	°C	ASTM D1525, ISO 306/B50 ⁸
Melting Temperature	222	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	7.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	22	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 mm	HB		
1.60 mm	HB		
3.20 mm	HB		
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			
--	1.0	hr	
Pre-heater	3.0	hr	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		

NOTE	
1.	6x4x50 mm
2.	6x4x50 mm
3.	20000 hrs
4.	Heat Stabilized, 20000 hrs
5.	Short Term
6.	Heat Stabilized, Short Term
7.	Rate A (50°C/h), Loading 1 (10 N)
8.	Rate A (50°C/h), Loading 2 (50 N)

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

