

TAROMID B 280 G2 X2

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6, glass fiber reinforced 10%, UL94 V2 self extinguishing, good flow and good mechanical properties.
Available: all colors, heat stabilized (H), release agent (W), and without PBDE/PBDF.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Flow		
	Good Mold Release		
	Heat Stabilized		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.60 to 0.80	%	
Across Flow	1.2 to 1.4	%	
Water Absorption			
23°C, 24 hr	1.7	%	ASTM D570, ISO 62
Saturation	7.6	%	ASTM D570
Saturation, 23°C	7.6	%	ISO 62
Granule Humidity	< 0.100		Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	104	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	6.0	%	ASTM D638, ISO 527-2
Flexural Modulus	4800	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	4.0	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	50	J/m	ISO 180, ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	204	°C	ASTM D1525, ISO 306/A50 3 ²
--	200	°C	ASTM D1525, ISO 306/B50 4 ³
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	222	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	4.2E-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)	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Glow Wire Ignition Temperature (2.00 mm)	850	°C	IEC 60695-2-13
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	230 to 250	°C	
Mold Temperature	80.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	6x4x50 mm		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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