

TAROMID B 280 G5 Y0

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6 glass fiber reinforced 25%, UL94 V0 self extinguishing halogen free, without phosphorous, good flow, high electrical and mechanical properties, good dimensional stability.
Available: all colours, heat stabilised (H), release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Dimensional Stability		
	Good Electrical Properties		
	Good Flow		
	Good Mold Release		
	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37 to 1.39	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.30 to 0.40	%	
Across Flow	0.40 to 0.80	%	
Water Absorption			
23°C, 24 hr	1.5	%	ASTM D570, ISO 62
Saturation	7.0	%	ASTM D570
Saturation, 23°C	7.0	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8400	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	125	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.6	%	ASTM D638, ISO 527-2
Flexural Modulus	8000	MPa	ASTM D790, ISO 178
Flexural Stress			

--	175	MPa	ISO 178
Break	175	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	7.4	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ² (23°C)	34	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	80	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B50, ASTM D1525 ³
Ball Pressure Test (165°C)	Pass		VDE 0470
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			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Ignition Temperature (2.00 mm)	960	°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	240 to 270	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	6x4x50 mm		
2.	6x4x50 mm		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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