

TAROMID B 280 MT5 Y2

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6, 25% mineral filled, UL94 V2 halogen free flame retarded, good flame proofing also at low thickness, good flow and good mechanical properties. High CTI value.

General Information			
Filler / Reinforcement	Mineral,25% Filler by Weight		
Features	Flame Retardant		
	Good Flow		
	Halogen Free		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.60	%	
Across Flow	0.60	%	
Water Absorption			
23°C, 24 hr	1.5	%	ASTM D570, ISO 62
Saturation	6.0	%	ASTM D570
Saturation, 23°C	6.0	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	75.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.5	%	ASTM D638, ISO 527-2
Flexural Modulus	4400	MPa	ASTM D790, ISO 178
Flexural Stress			
--	115	MPa	ISO 178
Break	115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	3.0	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ² (23°C)	50	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact			
23°C, 3.20 mm	50	J/m	ISO 180, ASTM D256
--	3.0	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	170	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	200	°C	ISO 306/B50, ASTM D1525 3
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 (0.970 mm)	V-2		UL 94
Glow Wire Ignition Temperature (1.00 mm)	960	°C	IEC 60695-2-13
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	250 to 280	°C	
Mold Temperature	80.0 to 90.0	°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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