

TAROMID B 280 Y0

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6 medium viscosity, UL94 V0 self extinguishing halogen and phosphorus free, low density, good flow and high tracking resistance.
Available: different colours, heat stabilised (H).

General Information			
Additive	Heat Stabilizer		
Features	Good Flow		
	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
	Low Density		
	Medium Viscosity		
	Self Extinguishing		
	Tracking Resistant		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16 to 1.18	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	1.0 to 1.5	%	
Across Flow	1.0 to 1.5	%	
Water Absorption			
23°C, 24 hr	1.4 to 1.8	%	ASTM D570, ISO 62
Saturation	9.0	%	ASTM D570
Saturation, 23°C	9.0	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	80.0	MPa	
Break	65.0	MPa	
Tensile Elongation (Break)	8.0	%	ASTM D638, ISO 527-2
Flexural Modulus	3100	MPa	ASTM D790, ISO 178
Flexural Stress			
-- ¹	120	MPa	ISO 178

-- ²	110	MPa	ISO 178
Yield	120	MPa	ASTM D790
Break	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	3.0	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ⁴ (23°C)	35	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	35	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	190	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ⁵	70.0	°C	
-- ⁶	100	°C	
-- ⁷	100	°C	
-- ⁸	120	°C	
Vicat Softening Temperature			
--	204	°C	ASTM D1525, ISO 306/A50 ⁹
--	200	°C	ASTM D1525, ISO 306/B50 ¹⁰
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	222	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	8.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength (2.00 mm)	20	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.970 mm)	V-0		UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	34	%	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 80.0	°C	
Injection Rate	Moderate		

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

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