

TAROMID A 280 MT8

Polyamide 66
Taro Plast S.p.A.

Message:

Polyammide 66 with 40% mineral reinforcement, high dimensional stability, high rigidity, good mechanical and thermal properties, good surface finish.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Features	Good Dimensional Stability		
	Good Surface Finish		
	High Rigidity		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45 to 1.47	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	25	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.60	%	
Across Flow	0.40 to 0.60	%	
Water Absorption			
23°C, 24 hr	0.40	%	ASTM D570, ISO 62
Saturation	4.0	%	ASTM D570
Saturation, 23°C	4.0	%	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	8000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	100	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus	7500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	180	MPa	ISO 178
Break	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	4.0	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ² (23°C)	26	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	38	J/m	ISO 180, ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	180	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
-- ³	80.0	°C	IEC 60216
-- ⁴	120	°C	IEC 60216
-- ⁵	120	°C	IEC 60216
-- ⁶	160	°C	IEC 60167
Vicat Softening Temperature	240	°C	ISO 306/B50, ASTM D1525 ⁷
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	256	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	3.0E-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)	24	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	27	%	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	260 to 290	°C	
Mold Temperature	80.0 to 100	°C	
NOTE			
1.	6x4x50 mm		
2.	6x4x50 mm		
3.	20000 hrs		
4.	Short Term		
5.	Heat Stabilized, 20000 hrs		
6.	Heat Stabilized, Short Term		
7.	Rate A (50°C/h), Loading 2 (50 N)		

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