

TAROMID A 280 G5 Y0

Polyamide 66
Taro Plast S.p.A.

Message:

Polyamide 66 glass fiber reinforced 25%, UL94 V0 self extinguishing halogen free, without red phosphorous, good flow, high electrical and mechanical properties, good dimensional stability.
Available: all colours, heat stabilised (H), release agent (W).

General Information			
UL YellowCard	E143048-100154156		
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Dimensional Stability		
	Good Electrical Properties		
	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
	Low Moisture Vapor Transmission		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.60	%	
Across Flow	0.50 to 0.90	%	
Water Absorption			
23°C, 24 hr	0.70	%	ASTM D570, ISO 62
Saturation	4.8	%	ASTM D570
Saturation, 23°C	4.8	%	ISO 62
Granule Humidity	< 0.15	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8600	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			

--	180	MPa	ISO 178
Break	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	7.0	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ² (23°C)	35	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	75	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	240	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ³	90.0	°C	
-- ⁴	120	°C	
-- ⁵	130	°C	
-- ⁶	160	°C	
Vicat Softening Temperature	245	°C	ISO 306/B50, ASTM D1525 ⁷
Ball Pressure Test (210°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
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	V-0		
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
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 270	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
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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