

TAROMID B 280 G3 X0

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6 glass fiber reinforced 15%, UL94 V0 self extinguishing, good flame proofing also at low thickness, good flow and good mechanical properties.

UL94 V0 approuved all colors at 0,97 mm. UL746B approved.

Available: different colors, heat stabilized (H), release agent (W), and without PBDE/PBDF.

General Information			
UL YellowCard	E143048-223238		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Flame Retardant		
	Good Flow		
	Good Mold Release		
	Heat Stabilized		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27 to 1.29	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.35 to 0.50	%	
Across Flow	0.60 to 0.90	%	
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	6600	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	115	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	6200	MPa	ASTM D790, ISO 178
Flexural Stress			
--	130	MPa	ISO 178

Break	130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	4.6	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	50	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	185	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
-- ²	80.0	°C	IEC 60216
-- ³	110	°C	IEC 60216
-- ⁴	120	°C	IEC 60216
-- ⁵	130	°C	IEC 60167
Vicat Softening Temperature			
--	208	°C	ASTM D1525, ISO 306/A50 ⁶
--	204	°C	ASTM D1525, ISO 306/B50 ⁷
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	222	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Comparative Tracking Index (Solution A)	200	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	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	230 to 250	°C	
Mold Temperature	80.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	6x4x50 mm		
2.	20000 hrs		
3.	Heat Stabilized, 20000 hrs		
4.	Short Term		
5.	Heat Stabilized, Short Term		

6.	Rate A (50°C/h), Loading 1 (10 N)
7.	Rate A (50°C/h), Loading 2 (50 N)

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