TAROMID B 280 G6 X0

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6 glass fiber reinforced 30%, UL94 V0 self extinguishing, good flame proofing also at low thickness, good flow and good mechanical properties, good dimensional stability.
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	E143048-223236		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer Mold Release		
Features	Flame Retardant Good Dimensional Stability 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	1.56 to 1.58	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.25 to 0.35	%	
Across Flow	0.40 to 0.60	%	
Water Absorption			
23°C, 24 hr	0.80	%	ASTM D570, ISO 62
Saturation	6.0	%	ASTM D570
Saturation, 23°C	6.0	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	130	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.2	%	ASTM D638, ISO 527-2

Flexural Modulus	8500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	190	MPa	ISO 178
Break	190	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [1] (23°C)	7.2	kJ/m^2	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	76	J/m	ISO 180, ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	208	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- [2]	90.0	°C	
-- [3]	120	°C	
-- [4]	130	°C	
-- [5]	160	°C	
Vicat Softening Temperature			
--	216	°C	ASTM D1525, ISO 306/A50 8 [6]
--	212	°C	ASTM D1525, ISO 306/B50 9 [7]
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	222	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	3.2E-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)	325	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	32	%	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 100	°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)

Recommended distributors for this material

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