TAROMID B 280 Z1 G6

Polyamide 6

Taro Plast S.p.A.

Message:

Polyamide 6, 30% glass fibers, impact modified.
Available: all colors, UV stabilized (L), release agent (W), heat stabilised (H).

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer Impact Modifier Mold Release UV Stabilizer		
Features	Good Mold Release Good UV Resistance Heat Stabilized Impact Modified		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.32 to 1.34	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.25 to 0.35	%	
Across Flow	0.60 to 0.80	%	
Water Absorption			
23°C, 24 hr	0.80 to 0.90	%	ASTM D570, ISO 62
Saturation	6.0	%	ASTM D570
Saturation, 23°C	6.0	%	ISO 62
Granule Humidity	< 0.10	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8600	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	140	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	5.0	%	ASTM D638, ISO 527-2
Flexural Modulus	7800	MPa	ASTM D790, ISO 178
Flexural Stress			
--	200	MPa	ISO 178

Break	200	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [1] (23°C)	40	kJ/m²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	160	J/m	ISO 180, ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	215	°C	ISO 306/B50, ASTM D1525 [2]
Melting Temperature	222	°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
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	23	%	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	240 to 260	°C	
Mold Temperature	80.0 to 110	°C	
Injection Rate	Moderate		
NOTE			
1.	6x4x50 mm		
2.	Rate A (50°C/h), Loading 2 (50 N)		

Recommended distributors for this material

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