

TAROMID B 280 Z3

Polyamide 6
Taro Plast S.p.A.

Message:

Polyamide 6 elastomer modified, very high impact resistance also at low temperature, high viscosity, very good chemical resistance to oils, solvents and other chemical substances.

Available: all colors, lubricated (W), and UV-stabilized (L).

General Information			
Additive	Lubricant		
	UV Stabilizer		
Features	Good Chemical Resistance		
	Good UV Resistance		
	High Viscosity		
	Low Temperature Impact Resistance		
	Lubricated		
	Oil Resistant		
	Solvent Resistant		
	Ultra High Impact Resistance		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08 to 1.10	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	1.2 to 1.5	%	ASTM D955
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	< 0.15	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	55.0	MPa	
Break	50.0	MPa	
Tensile Elongation (Break)	> 150	%	ASTM D638, ISO 527-2
Flexural Modulus	1600	MPa	ASTM D790, ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹			ASTM D256, ISO 179
-20°C	18	kJ/m ²	
23°C	85	kJ/m ²	
Charpy Unnotched Impact Strength ²			ASTM D256, ISO 179
-20°C	No Break		
23°C	No Break		
Notched Izod Impact			ISO 180, ASTM D256
-20°C, 3.20 mm	600	J/m	
23°C, 3.20 mm	800	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/B50, ASTM D1525 ³
Ball Pressure Test (125°C)	Pass		VDE 0470
Melting Temperature	220	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+15	ohms · cm	ASTM D257
Comparative Tracking Index (Solution A)	> 600	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		
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 270	°C	
Mold Temperature	70.0 to 80.0	°C	
NOTE			
1.	6x4x50 mm		
2.	6x4x50 mm		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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