

TAROMID A 280 Z3

Polyamide 66
Taro Plast S.p.A.

Message:

Polyamide 66 elastomer modified, very high impact resistance, good impact also at low temperature, good chemical resistance to oils, solvents and other chemical substances.
Available: different colors, UV-stabilized (L), release agent (W).

General Information			
Additive	Impact Modifier		
	Mold Release		
	UV Stabilizer		
Features	Good Chemical Resistance		
	Good Mold Release		
	Good UV Resistance		
	High Impact Resistance		
	Impact Modified		
	Low Temperature Impact Resistance		
	Oil Resistant		
	Solvent Resistant		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	1.5 to 1.7	%	ASTM D955
Water Absorption			
23°C, 24 hr	1.2	%	ASTM D570, ISO 62
Saturation	6.0	%	ASTM D570
Saturation, 23°C	6.0	%	ISO 62
Granule Humidity	< 0.15	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	55.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	50	%	ASTM D638, ISO 527-2
Flexural Modulus	2000	MPa	ASTM D790, ISO 178
Flexural Stress			
--	75.0	MPa	ISO 178
Break	75.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹			
23°C ²	55	kJ/m ²	ASTM D256
23°C	55	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-25°C, 3.20 mm	640	J/m	ISO 180, ASTM D256
23°C, 3.20 mm	700	J/m	ISO 180, ASTM D256
23°C ³	60	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	66.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B50, ASTM D1525 ⁴
Ball Pressure Test (125°C)	Pass		VDE 0470
Melting Temperature	256	°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	1.0E+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	270 to 290	°C	
Mold Temperature	70.0 to 80.0	°C	
Injection Rate	Fast		
NOTE			
1.	6x4x50 mm		
2.	Type 1, Edgewise, Notch A		
3.	4 mm		
4.	Rate A (50°C/h), Loading 2 (50 N)		

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