

TAROMID B 280 Z2

Polyamide 6

Taro Plast S.p.A.

Message:

TAROMID B 280 Z2 is a polyamide 6 (nylon 6) product. It can be processed by injection molding and is available in Europe.

Features include:

- flame retardant/rated flame
- chemical resistance
- Impact modification
- Impact resistance
- Medium viscosity

General Information			
Additive	Impact modifier		
Features	Impact modification		
	Solvent resistance		
	Low temperature impact resistance		
	Good chemical resistance		
	Oil resistance		
	Medium viscosity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09 - 1.11	g/cm³	ISO 1183
Molding Shrinkage - Flow	1.2 - 1.6	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	1.4	%	ISO 62
Saturated, 23°C	7.0	%	ISO 62
Granule Humidity ¹		%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	60.0	MPa	ISO 527-2/50
Fracture	55.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 150	%	ISO 527-2/50
Flexural Modulus ²	2200	MPa	ISO 178
Flexural Stress ³	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-25°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU

Notched Izod Impact			ASTM D256
-20°C	200	J/m	ASTM D256
23°C	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed)	62.0	°C	ISO 75-2/A
Vicat Softening Temperature	160	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Melting Temperature	220	°C	ISO 11357-3
CLTE - Flow (-30 to 30°C)	7.0E-5 - 1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+15	ohms·cm	IEC 60093
Dielectric Constant	3.00		IEC 60250
Comparative Tracking Index (Solution A)	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	80.0 - 110	°C	
Injection Rate	Moderate		
Injection instructions			
Pre-heat Temperature: 80 to 100°CPre-heat Time: 3 hr			
NOTE			
1.	TARO 002		
2.	1.0 mm/min		
3.	1.0 mm/min		
4.	120°C/hr		

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