



PRODUCT INFORMATION

TAROMID B 280 G5 Y0

Polyamide 6 medium viscosity 25% glass fibres reinforced, halogen free flame retardant UL94 V0, good flow, high electrical and mechanical properties, good dimensional stability.

ISO short Form ISO 1043: PA6-GF25 FR(30)
Pellets

Key Features

- Designed for injection moulding applications
- Improved heat resistance
- Halogen free
- Glass fibres reinforced
- Flame retardant

Availability

- LP: laser printable
- L: UV stabilized
- H: heat stabilized
- All colours

Process

- INJECTION MOULDING

Application

- General purpose applications
- Electronic
- Electrical

Property	Method	Unit	Value	Condition	State
ELECTRICAL					
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	600		
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	1,38		
Filler content	ISO 3451	%	25	850°C - 1 h	
Granule Humidity	Internal method	%	<0,10		
Water Absorption (24h / +23°C)	ISO 62	%	1,5		
Water Absorption at Saturation	ISO 62	%	7,0		
Mould Shrinkage (Parallel)	Internal method	%	0,30-0,40		
Mould Shrinkage (Normal)	Internal method	%	0,40-0,80		
Melting temperature (DSC)	ISO 11357	°C	222		

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MECHANICAL

Tensile Modulus	ISO 527-1,2	MPa	8700	Speed 1 mm/min	Dry
Elongation at Break	ISO 527-1,2	%	2,6	Speed 50 mm/min	Dry
Tensile Break Strength	ISO 527-1,2	MPa	120	Speed 50 mm/min	Dry
Flexural Modulus	ISO 178	MPa	8000	Speed 1 mm/min	Dry
Flexural Break Strength	ISO 178	MPa	175	Speed 1 mm/min	Dry
IZOD Notched Impact (+23°C)	ASTM D256	J/m	110		Dry
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m ²	9,0		Dry
CHARPY Unnotched Impact (+23°C)	ISO 179/1eU	kJ/m ²	45		Dry

THERMAL

Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	210	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	205	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	170	

FLAMMABILITY

Flame Behaviour (1,6 mm)	UL94	Class	V0
Flame Behaviour (3,2 mm)	UL94	Class	V0
Glow Wire Flammability Index-GWFI (1,6 mm)	IEC 60695-2-12	°C	960
Oxygen index	ASTM D2863	%	31

INJECTION MOULDING

	Value
Drying Temperature (Desiccant Dryer)	80 - 90°C
Drying Time (Desiccant Dryer)	2 - 4 hours
Suggested Max Moisture	0,08 %
Suggested Max Regrind	< 10 %
Melt Temperature	230 - 260°C
Feed Temperature	210°C
Rear Temperature	235°C
Middle Temperature	245°C
Front Temperature	255°C



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Nozzle Temperature	250°C
Mould Temperature	70 - 100°C
Injection Rate	Medium to Fast
Injection Pressure	3 - 12 Mpa
Packing Pressure	5 - 15 Mpa
Screw Revolving Speed	50 - 100 rpm
Cushion	> 3 mm
Screw L/D Ratio	18 - 22
Screw Compression Ratio	2:1 - 2,5:1
Vent Depth	0,02 mm

Notes During processing, a dehumidifying hopper dryer is recommended at a temperature of 60 to 80°C. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine or extruder size, part geometry and design.