



PRODUCT INFORMATION

TAROMID A 280 G2 Y0

Polyamide 66 medium viscosity 10% glass fibres reinforced, halogen free flame retardant UL94 V0, high electrical properties, good flow and mechanical properties.

ISO short ISO 1043: PA66-GF10 FR(40)
Form Pellets
UL file E143048

Key Features

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

Availability

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

Compliance

- UL94 V0 approved all colours at 0,75-1,5 and 3,0 mm. UL746 B approved. UL746 A (CTI-GWIT-GWFI) approved.

Process

- INJECTION MOULDING

Application

- Electronic
- Electrical

Property	Method	Unit	Value	Condition	State
ELECTRICAL					
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	600	UL746 A CTI class 0	
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	1,26-1,28		
Granule Humidity	Internal method	%	<0,10		
Water Absorption (24h / +23°C)	ISO 62	%	0,9		
Water Absorption at Saturation	ISO 62	%	6,6		
Mould Shrinkage (Parallel)	Internal method	%	0,5-0,9		
Mould Shrinkage (Normal)	Internal method	%	0,8-1,1		
Melting temperature (DSC)	ISO 11357	°C	256		
MECHANICAL					
Tensile Modulus	ISO 527-1,2	MPa	5500	Speed 1 mm/min	Dry

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Elongation at Break	ISO 527-1,2	%	3,8	Speed 50 mm/min	Dry
Tensile Break Strength	ISO 527-1,2	MPa	84	Speed 50 mm/min	Dry
Flexural Modulus	ISO 178	MPa	5100	Speed 1 mm/min	Dry
Flexural Max Strength	ISO 178	MPa	100	Speed 1 mm/min	Dry
IZOD Notched Impact	ASTM D256	J/m	38	+23°C	Dry
IZOD Notched Impact (+23°C)	ASTM D256	kJ/m ²	3,7		Dry
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m ²	3,5		Dry
CHARPY Unnotched Impact (+23°C)	ISO 179/1eU	kJ/m ²	35		Dry

THERMAL

Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	228	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	206	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	205	
Continuous service temperature (20.000 h)	UL746 B	°C	120	
Continuous service temperature (short term)	UL746 B	°C	150	
Coefficient of linear thermal expansion (parallel)	ISO 11359-1,-2	K ⁻¹	3,6x10exp(-5)	-30°C / +30°C

FLAMMABILITY

Flame Behaviour (0,75 mm)	UL94	Class	V0	UL approved
Flame Behaviour (1,5 mm)	UL94	Class	V0	UL approved
Flame Behaviour (3,0 mm)	UL94	Class	V0	UL approved
Glow Wire Flammability Index-GWFI	IEC 60695-2-12	°C	960	UL approved at 3,0 mm
Glow Wire Ignition Temperature-GWIT	IEC 60695-2-13	°C	775	UL approved at 3,0 mm

INJECTION MOULDING

	Value
Drying Temperature (Desiccant Dryer)	80 - 90°C
Drying Time (Desiccant Dryer)	2 - 4 h
Suggested Max Moisture	0,02 %
Suggested Max Re grind	< 10 %
Melt Temperature	260 - 290°C
Feed Temperature	230°C

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Rear Temperature	260°C
Middle Temperature	270°C
Front Temperature	280°C
Nozzle Temperature	270°C
Mould Temperature	70 - 90°C
Injection Rate	Medium to Fast
Injection Pressure	40 - 100 Mpa
Packing Pressure	25 - 75 Mpa
Back Pressure	As low as possible (0,3 - 0,6 MPa)
Screw Revolving Speed	25 - 50 rpm
Screw Revolving Speed	50 rpm @ Diameter 40 mm
Screw Revolving Speed	35 rpm @ Diameter 55 mm
Screw Revolving Speed	25 rpm @ Diameter 75 mm
Cushion	3 - 6 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.