



PRODUCT INFORMATION

## TAROMID A 280 S

Polyamide 66 medium viscosity, good processing and easy release, low post shrinkage and better dimensional stability, fast cycles, high rigidity.

**ISO short Form** ISO 1043: PA66 Pellets

### Key Features

- Unfilled
- Containing nucleating agents for fast injection cycles time
- Excellent colorability
- Designed for injection moulding applications

### Availability

- FA: food approval
- DB: dry blend coloured

### Process

- INJECTION MOULDING

### Application

- General purpose applications

Property	Method	Unit	Value	Condition	State
<b>ELECTRICAL</b>					
Volume Resistivity	IEC 60093	Ohm cm	9x10E15		
Dielectric Strength	IEC 60243-1	kV/mm	24	2 mm	
Dissipation Factor Frequency	IEC 60250	-	0,015		
Dielectric Constant	IEC 60250	-	3,40		
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	> 600		
Tracking Resistance (CTI - Method B)	IEC 60112	Volt	600M		
<b>PHYSICAL</b>					
Density (+23°C)	ISO 1183	g/cm <sup>3</sup>	1,13 - 1,15		
Granule Humidity	Internal method	%	< 0,15		
Water Absorption (24h / +23°C)	ISO 62	%	1		
Water Absorption at Saturation	ISO 62	%	7		
Mould Shrinkage (Parallel)	Internal method	%	1,6 - 2,2		
Mould Shrinkage (Normal)	Internal method	%	1,6 - 2,5		

PRODUCT INFORMATION

**TAROMID A 280 S**

Melting temperature (DSC)	ISO 11357	°C	256	
Melt Flow Rate (MFR)	ISO 1133	g/10 min	18	280°C - 1 kg

**MECHANICAL**

Tensile Modulus	ISO 527-1,2	MPa	1100	Speed 1 mm/min	Cond.
Tensile Modulus	ISO 527-1,2	MPa	3000	Speed 1 mm/min	Dry
Elongation at Yield	ISO 527-1,2	%	20	Speed 50 mm/min	Cond.
Elongation at Yield	ISO 527-1,2	%	5	Speed 50 mm/min	Dry
Tensile Yield Strength	ISO 527-1,2	MPa	50	Speed 50 mm/min	Cond.
Tensile Yield Strength	ISO 527-1,2	MPa	85	Speed 50 mm/min	Dry
Elongation at Break	ISO 527-1,2	%	> 50	Speed 50 mm/min	Cond.
Elongation at Break	ISO 527-1,2	%	20	Speed 50 mm/min	Dry
Flexural Modulus	ISO 178	MPa	3100	Speed 1 mm/min	Dry
Flexural Max Strength	ISO 178	MPa	130	Speed 1 mm/min	Dry
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m <sup>2</sup>	5		Dry
CHARPY Unnotched Impact (+23°C)	ISO 179/1eU	kJ/m <sup>2</sup>	N.B.		Dry
CHARPY Unnotched Impact (-25°C)	ISO 179/1eU	kJ/m <sup>2</sup>	N.B.		Dry

**THERMAL**

Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	254	50°C / h
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	240	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	90	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	205	
Continuous service temperature (20.000 h)	UL746 B	°C	90 (140 HT)	
Continuous service temperature (short term)	UL746 B	°C	120 (160 HT)	
Coefficient of linear thermal expansion (parallel)	ISO 11359-1,-2	K <sup>-1</sup>	8x10E(-5)	-30°C /+30°C

**FLAMMABILITY**

Flame Behaviour (1,6 mm)	UL94	Class	V2	
Burning Rate (US-FMVSS 302)	ISO 3795	mm/min	< 80	Thickness > 1,5 mm

