

TECHNYLSTAR™ S 218 MT40

Product Datasheet - April 2007

Description

TechnylStar Polyamide, 40% mineral filled, heat stabilized, for injection moulding. Characterized by a high fluidity of the melt.

Product Applications

This grade has good mechanical properties. It is suitable for automotive industry and specially designed for electroplating.

This product is available in natural.

Processing

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,2% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions :

Barrel temperatures :

- feed zone 220 - 230°C

- compression zone 240 - 250°C

- front zone 245 - 250°C

Mould temperatures : 80 °C

Safety

Please refer to the Safety Data Sheet AO60M8KI8FS



Engineering Plastics

TECHNYLSTAR TM S 218 MT40

The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.72	-
Density	ISO 1183-A	g/cm3	1.45	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.74	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.76	-
Molding Shrinkage Isotropy	RHODIA-EP		0.97	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	5800	2600
Tensile strain at break	ISO 527 type 1 A	%	8	25
Tensile strength at break	ISO 527 type 1 A	MPa	90	55
Flexural modulus	ISO 178	MPa	9300	5200
Flexural maximum stress	ISO 178	MPa	255	65
Charpy notched impact strength	ISO 179/1eA	kJ/m2	14.10	10
Charpy notched impact strength (-30°C)	ISO 179/1eA	kJ/m2	50	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	45	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	14	22
Izod unnotched impact strength	ISO 180/1U	kJ/m2	82	65
Thermal				
Melting Temperature	ISO 11357	°C	221	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	90	-

Identification Code : >PA6-MD40<

The information contained in this document is supplied in good faith. It is based on the extent of our knowledge of the products as listed, and on the tests and experiments carried out in our laboratories. It is to be used only as an indication and shall not be construed in any way as a format commitment or warranty of our part. Compliance of our products with your conditions or use can only be determined pursuant to your own prior appropriate list. The listed values of properties are for natural grade, if not otherwise specified.

d.a.m*.

Cond.**



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