TECHNYL® STAR TM SX 218 V60

Product Datasheet - December 2003

Description

TECHNYL STAR Polyamide reinforced with 60% of glass fibre, heat stabilized, for injection moulding. Characterized by a high fluidity of the melt.

Product Applications

TECHNYL STAR SX 218 V60 is suitable for all applications where a high rigidity is required. Due to its outstanding flow properties, the material easely fills the mould and the surface aspect of the finished part is excellent.

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 0,15% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions:
Barrel temperatures :

- feed zone	220- 225°C		
- compression zone	235 - 240 °C	-front zone	240- 245°C
Mould temperatures:	80 °C		

For more detailed information, please refer to the technical sheet "Injection moulding".

Safety

Please refer to the Material Safety Data Sheet QD8SLPAJ8FS

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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	%	0.55	-
Density	ISO 1183-A	g/cm3	1.65	-
Molding Shrinkage Isotropy	RHODIA-EP		1	-
Molding shrinkage Parallel	ISO 294-4	%	0.01	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	21000	15500
Tensile strain at break	ISO 527 type 1 A	%	2.40	3.70
Tensile strength at break	ISO 527 type 1 A	MPa	240	165
Flexural modulus	ISO 178	MPa	19000	13200
Charpy notched impact strength	ISO 179/1eA	kJ/m2	15	20
Charpy unotched impact strength	ISO 179/1fU	kJ/m2	85	95
Izod notched impact strength	ISO 180/1A	kJ/m1	15.20	22
Izod unnotched impact strength	ISO 180/1U	kJ/m2	90	100
Thermic				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	215	-

Identification Code :

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 = Dry As Moulded.

** Cond. = Conditioned according ISO 1110.

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