TECHNYL® B 238 BLACK 21 N

Product Datasheet - October 2007

Description

Unreinforced and modified copolyamide 66/6, heat stabilized, with improved impact resistance, for injection moulding.

Product Applications

TECHNYL B 238 is particularly recommended for applications where high thermal stress rates and good impact resistance are required, also for parts which could break during assembly or parts used at low humidity level.

This grade is commonly used in :
- automotive industry for under bonnet fasteners .

This product is available in black.

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 240 - 250°C
- compression zone 250 - 260°C
- front zone 260 - 270°C

Mould temperatures : 60 at 80°C

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

Safety

Please refer to the Safety Data Sheet 6P709DTI8FS

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The values of properties are for black grade.

Properties	Standards	Unit	Values	
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	1.35	-
Density	ISO 1183-A	g/cm3	1.09	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	2.20	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	2.05	-
Molding Shrinkage Isotropy (Rhodia EP)	RHODIA-EP		1.07	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	2300	900
Tensile strength at yield	ISO 527 type 1 A	MPa	60	40
Elongation at yield	ISO 527 type 1 A	%	5	12
Elongation at break	ISO 527 type 1 A	%	50	250
Tensile strength at break	ISO 527 type 1 A	MPa	50	40
Flexural modulus	ISO 178	MPa	2000	700
Flexural maximum stress	ISO 178	MPa	80	27
Charpy notched impact strength	ISO 179/1eA	kJ/m2	8	30
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	7	18
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Limit Oxygen index	ISO 4589		21	-
Thermal				
Melting Temperature	ISO 11357	°C	242	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	62	-
Coef. of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	7	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.07
Volume resistivity	IEC 60093	Ohm.cm	10E13	10E11
Surface resistivity	IEC 60093	Ohm	50E13	10E10
Dielectric strength	IEC 60243	kV/mm	32	30
Comparative tracking index sol. A	IEC 60112	Volt	500	500
Comparative tracking index sol. B	IEC 60112	Volt	475	-
Specific				
IMDS id number	Rhodia		20519364 / 1	-

Identification Code : >PA66/6<

d.a.m*.

Cond.**

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