



ABISTIR UG NATURALE AD110003S

Acrylonitrile-Butadiene-Styrene Compound (ABS)

Description	General purpose ABS grade, excellent gloss and molding properties
Color	Natural
Norm compliance	Compliant with Regulation (EC) No 1907/2006 (REACH)
Processing technology	Injection moulding

Physical properties	Typical value (SI)	Typical value (EN)	Test method
Density	1.05 g/cm ³	1.05 g/cm ³	ASTM D792
Mold Shrinkage	0.5 %	0.5 %	INTERNAL
Melt Flow Index 220°C/10kg	30 g/10min	30 g/10min	ASTM D1238
Water absorption (24 h/23°C)	0.10 %	0.10 %	ASTM D570
Mechanical properties	Typical value (SI)	Typical value (EN)	Test method
Tensile strength at yield	45 MPa	6525 psi	ASTM D638
Tensile elongation at break	20 %	20 %	ASTM D638
Flexural Modulus	2400 MPa	348000 psi	ASTM D790
IZOD impact strength, notched (23 °C)	150 J/m	2.805 ft-lb/inch	ASTM D256
IZOD impact strength, notched (-30 °C)	60 J/m	1.122 ft-lb/inch	ASTM D256
IZOD impact strength, notched (0 °C)	130 J/m	2.431 ft-lb/inch	ASTM D256
Thermal properties	Typical value (SI)	Typical value (EN)	Test method
Vicat B (50°C/h at 50 N)	95 °C	203 F°	ASTM D1525
HDT Heat Deflection Temperature A (1,82 MPa)	92 °C	197.6 F°	ASTM D648
Ball Pressure Temperature	75 °C	167 F°	IEC 60695-10-2
Flammability	Typical value (SI)	Typical value (EN)	Test method
Flame Rating (1,6 mm)	HB Class	HB Class	UL94
Flame Rating (3,2 mm)	HB Class	HB Class	UL94
GWIT (Glow Wire Ignition Temperature)	650 °C/mm	650 °C/mm	IEC 60695-2-13
Oxygen Index (LOI)	%	%	ASTM D2863
Electrical properties	Typical value (SI)	Typical value (EN)	Test method
CTI Comparative tracking index	600 VOLT	600 VOLT	IEC 60112

Processing conditions	Typical value (SI)	Typical value (EN)
Drying	2h/80 °C	2h/176 °F
Injection moulding	Typical value (SI)	Typical value (EN)
Recommended processing temperatures:		
1st Zone	190 °C	374 °F
2nd Zone	210 °C	410 °F
3rd Zone	230 °C	446 °F
Mould	50-60 °C	122-140 °F

Storage

This product should be stored in a covered facility and kept away from moisture and heat.

Disclaimer

The figures reported in this Technical Data Sheet are based on tests and analyses carried out in SO.F.TER. laboratories on injection-moulded specimens. These figures indicate the typical material properties and are not to be considered a specification. The user shall always carry out his own tests and analyses in order to verify the suitability of the material for the specific application. Test carried out at 23°C unless otherwise stated.

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