



RETELAN NFV0 NERO WABSNR000NFV0P

Acrylonitrile-Butadiene-Styrene Compound (ABS)

Color	Black
Norm compliance	Compliant with Regulation (EC) No 1907/2006 (REACH)
Processing technology	Injection moulding

Physical properties	Typical value	Units	Test Method
MFI Melt Flow Index 220°C/10kg	32	g/10min	ASTM D1238
Water absorption (24 h/23°C)	0.3	%	ASTM D570
Density	1.16	g/cm ³	ASTM D792
Mold Shrinkage	0.5	%	INTERNAL
Mechanical properties	Typical value	Units	Test Method
Tensile strength at yield	40	MPa	ASTM D638
Tensile strength at break	30	MPa	ASTM D638
Tensile elongation at break	15	%	ASTM D638
Tensile Modulus	2100	MPa	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
IZOD impact strength, notched (23 °C)	110	J/m	ASTM D256
Flexural Strength	60	MPa	ASTM D790
Thermal properties	Typical value	Units	Test Method
Vicat Softening Temperature A (50°C/h at 10 N)	95	°C	ASTM D1525
Vicat Softening Temperature B (50°C/h at 50 N)	85	°C	ASTM D1525
HDT Heat Deflection Temperature A (1,82 MPa)	72	°C	ASTM D648
Coefficient of linear thermal expansion	9	°C-1	ASTM D696-3
Flammability	Typical value	Units	Test Method
Flame Rating (0,8 mm)	V0	Class	UL94
Electrical properties	Typical value	Units	Test Method
Dielectric strength, 1.6mm	32	kV/mm	ASTM D149
Dissipation factor, 1kHz	0.004	-	ASTM D150
Dielectric constant, 1kHz	3.1	-	ASTM D150
Volume resistivity, 23°C	10 ¹³	Ohm.cm	ASTM D257
Surface resistivity	10 ¹⁵	OHM/sq	ASTM D257

Injection moulding	Typical value
Recommended processing temperatures:	
1st Zone	190°C
2nd Zone	210°C
3rd Zone	220°C
Mould	50-70°C

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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