NOVAKRAL® ABS FR

novalca

ABS compound,
Flame retardant grade

FR: flame retardant grade, flammability class V0 at 1.6 mm – with antimony trioxide and brominated flame retardant additives, PBBs, PBDEs, TBBPA free.

GENERAL PROCESSING PARAMETERS FOR INJECTION MOLDING		
DRYING CONDITIONS	**BARREL TEMPERATURE**	**MOULD TEMPERATURE**
70 ÷ 80 °C x 2 ÷ 4 hours **Maximum moisture content after drying ≤ 0.02%**	**190 ÷ 220 °C** **Hot runners molds not recommended.** **Avoid over dimensioned machines. Provide suitable exhaust ventilation at the drying and in the processing areas.** **Ensure thorough ventilation of stores and work areas**	**40 ÷ 70 °C**
PACKAGING		
25 Kg Bags, 1000 Kg Octabins, 750 Kg Boxes		

PROPERTIES	METHOD		UNIT	TYPICAL VALUES
PHYSICAL				
Density	ASTM D792	ISO 1183	gr/cm^3	**1.20**
Humidity Absorption (equilibrium, in air, +23°C – 50% RH)	INTERNAL METHOD		%	**0.30**
Mould Shrinkage	INTERNAL METHOD		%	**0.3 ÷ 0.7**
Melt Flow Index MFI (220 °C - 10 Kg)	ASTM D1238	ISO 1133	g/10’	**28**
MECHANICAL				
Tensile strength: stress at yield	ASTM D638	ISO 527-1,-2	MPa	**35**
strain at break	ASTM D638	ISO 527-1,-2	%	**10**
Flexural modulus	ASTM D790	ISO 178	MPa	**2500**
IZOD notched impact strength, at 23 °C Specimen dimensions 62.5 mm x 12.7 mm x 3.2 mm	ASTM D256	-	J/m	**120**
THERMAL				
VICAT softening temperature at 49 N-120 °C/h	ASTM D1525/B	ISO 306/B	°C	**92**
ELECTRICAL				
Surface resistivity	ASTM D257	IEC 60093	Ohm	**1E14**
Comparative tracking index (solution A, CTI)	VDE 0303-P1	IEC 60112	V	**350**
FLAMMABILITY				
Flammability UL94 (thickness 3.2 mm)	UL 94		Class	**V0**
Flammability UL94 (thickness 1.6 mm)	UL 94		Class	**V0**
Glow wire flammability GWFI (thickness 3.2 mm)	IEC 60695-2-12		°C	**960**
Glow wire flammability GWFI (thickness 2 mm)	IEC 60695-2-12		°C	**960**

Our technical data are provided for guidance purpose only and are based on average values. The data are not meant to be used for specification or warranted purposes. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the data have been established on standardized test specimens at room temperature. All technical information is subject to continuous update, so the customer shall always ensure that the latest release of technical information is at his own disposal. It is the customer’s responsibility to inspect and test our products in order to determine to his own satisfaction whether they are suitable for his intended uses and applications or used in conjunction with third-party materials.
This product is not suitable for applications in the pharmaceutical, medical, dental and toys sectors, in contact with foodstuff or for potable water transportation.

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