

alfacarb FR-PC v0

PROPERTIES	NORMS		UNITS	TYPICAL VALUES
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1. PHYSICAL

Specific weight	ASTM D792	ISO 1183	Gr/cm ³	1,21
Water absorption 24h-23°C	ASTM D570	ISO 62	%	0,15
Mould Shrinkage	ASTM D955	---	%	0,5><0,7
Melt flow index MFI (300°C-1,2Kg.)	ASTM D1238	ISO 1133	GR/10 ¹	15><20
Light transmission	ASTM D1003	---	%	-----
Index of refraction	ASTM D542	ISO R 489	---	-----

2. MECHANICAL

Tensile strength at yield	ASTM D638	ISO R527	Mpa	60
Tensile ultimate elongation	ASTM D638	ISO R527	%	>100
Flexural strength	ASTM D790	ISO 178	Mpa	95
Flexural modulus	ASTM D790	ISO178	Mpa	2400
Notched IZOD impact strength	ASTM D258	ISO180/4A	---	-----
Thickness 3,2 mm 23°C			J/m	600
Thickness 3,2 mm 0°C			J/m	500
Thickness 3,2 mm -40°C			J/m	100-180
Rockwell Hardness scale M	ASTM D785	ISO2039/2	---	70

3. THERMAL

Softening point VICAT 9,8 N-120°C/h	ASTM D1525/A	ISO 306/A	°C	150
Softening point VICAT 49 N-120°C/h	ASTM D1525/B	ISO 306/B	°C	140
Heat distortion. Temp. HDT 1,82 MPa	ASTM D648	ISO 75	°C	135
Ball thermal resistance	BS 3456	IEC 335	°C	>125
Limit use time----few hours	VDE 0304/P2-1	IEC216	°C	135
5.000	VDE 0304/P2-1	IEC 216	°C	120
20.000	VDE 0304/P2-1	IEC216	°C	110

4. ELECTRICAL

Surface resistivity	ASTM D257	IEC 93	Ohm	10¹⁴
Dielectric strength	ASTM D149	IEC 243	KV/mm	35
Dielectric constant 1000 Hz	ASTM D150	IEC 250	---	3,0
Dissipation factor integr.-1000 Hz.	ASTM D150	IEC 250	---	0,001
Resistance to tracking(sol. A)	VDE 0303-P1	IEC 112	CTI val.	180

5. FIRE REACTION

Thickness 1,6mm	UL 94	-----	CLASS	V0
Thickness 3,2mm	UL 94	-----	CLASS	V0
Glow-Wire Thickness 3.2mm	VDE 0471/P2-4	IEC 695	°C	960
Glow-wire Thickness 2mm	VDE 0471/P2-4	IEC 695	°C	960

Alfaline S.r.l.: 20020 LAINATE-via cremona, 28/30- tel (39) 02 93571134- fax (39) 02 93572722

Alfaline@tin.it

The values given are only indicative for customer's uses and do not dispense client to effect his own controls.
Product application, use and processing made out our control are only on customer's responsibility.