September 2025

Aikon® AR 1020

2-sides coated abrasion-resistant polycarbonate sheet

Aikon® AR 1020 is a clear transparent hard coated polycarbonate, which offers superior impact resistance combined with increased abrasion-resistance from the hard coating.

Hard coated polycarbonate also offers very high UV-radiation resistance and protection against yellowing and loss of translucence.

The coated surfaces are also well protected against harmful chemicals and cleaning agents.

BENEFITS

superior impact resistance high abrasion resistance good chemical resistance improved UV resistance

APPLICATIONS

flat machine covers non-break glazing for buildings spectator protection in ice hockey arenas Noise barrier walls

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′cm³ IS	SO 1183-1
IS	SO 62
IS	SO 62
IS	SO 489
Pa IS	SO 527-1,-2
lPa IS	SO 527-1,-2
IS	SO 527-1,-2
IS	SO 527-1,-2
lPa IS	SO 178
Pa IS	SO 178
AS	STM D1003
°C IS	SO 306
//(m.K) IS	SO 8302
0-4/K IS	SO 11359-1, -2
C IS	SO 75-1, -2
- IS	SO 75-1, -2
P 	°C IS (m.K) IS -4/K IS

⁽¹⁾ These values are measured on injection moulded samples by the sheet manufacturer, and are not intended for specification purposes.

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⁽²⁾ Test data of Momentive SilFORT™ PHC587C Hard Coat



PRODUCT DATASHEET

September 2025

OPTICAL	Test Conditions	Typical values(1)	Unit	Standard
Refractive index	Procedure A	1.587	_	ISO 489
Light Transmission	3mm transparent sheet	88	%	ASTM D1003

Light Transmission in % per thickness	3	4	5	6	8	10	12	15
Aikon® AR 1020	88	87	87	86	85	83	82	80

IMPACT RESISTANCE	Test Conditions	Typical values(1)	Unit	Standard
Charpy impact strength	23 °C, unnotched	non-break	kJ/m2	ISO 179-1eU
Charpy impact strength	23 °C, 3 mm, notched	80P	kJ/m2	ISO 179-1eU
Izod impact strength	23 °C, 3.2 mm, notched	70P	kJ/m2	ISO 180-A

Permanent Service Temperature:

The permanent service temperature without load is approx. -50°C - +120°C.

Fire Behaviour

Fire behaviour of polycarbonate sheets are considered to be good and fulfil several different fire ratings. Aikon® 1020 has not been tested for any standard. Please contact us if you need material with a fire rating standard.

Delivery formats

Aikon® AR 1020 is available in clear transparent colour and in thicknesses from between 2-15mm. Available in size 3000 x 2000mm. Other sizes, colours, and sheet thicknesses on request.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information, and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Aikolon Oy. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance are given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. Aikon® is a registered trademark of Aikolon Oy.

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