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PXDS/2Ed/53/1100

# PERSPEX

## Product Data Summary

**PERSPEX™**  
ACRYLIC SHEET



**PXDS**  
SECOND EDITION



PROPERTY	PROPRIETES	EIGENSCHAFTEN	PROPRIETA	TEST METHOD	UNITS	PERSPEX GS CAST SHEET	PERSPEX GS IM CAST SHEET	PERSPEX XT EXTRUDED SHEET	PERSPEX XT IM IMPACT MODIFIED EXTRUDED SHEET	
						000/0000	0M14	0X00	IM50	IM60
<b>General</b>	<b>Générales</b>	<b>Allgemeine</b>	<b>Generali</b>							
Relative Density	Masse Volumique	Dichtezahl	Massa Volumica	ISO 1183	-	1.19	1.18	1.19	1.17	1.16
Rockwell Hardness	Dureté Rockwell	Rockwell-Härte	Durezza Rockwell	ISO 2039-2	M Scale	102	98.5	101	65	45
Ball Indentation Hardness	Dureté à la Bille	Kugeldruckhärte	Durezza alla Compressione con Sfera	ISO 2039-1	MPa	-	-	-	-	-
Water Absorption	Absorption d'Eau	Wasseraufnahme	Assorbimento d'acqua	ISO 62	%	0.2	0.4	0.2	0.3	0.3
Flammability	Inflammabilité	Brandverhalten	Infiammabilità	DIN 4102	-	B2	B2	B2	B2	B2
"	"	"	"	UL 94	-	HB	HB	HB	HB	HB
"	"	"	"	BS 476, Pt 7	Class	3	3	4	-	-
				NFP 92 - 307		M4 (without drips)		M4 (with drips)		
<b>Mechanical</b>	<b>Mécaniques</b>	<b>Mechanische</b>	<b>Meccaniche</b>							
Tensile Strength	Résistance à la Traction	Zugfestigkeit	Resistenza alla Trazione	ISO 527 (a)	MPa	75	62	70	68	50
Elongation at Break	Allongement à la Rupture	Reißdehnung	Allungamento alla Rottura	ISO 527 (a)	%	4	-	4	18	25
Flexural Strength	Résistance à la Flexion	Biegefestigkeit	Resistenza alla Flessione	ISO 178 (b)	MPa	116	105	107	90	70
Flexural Modulus	Module de Flexion	Biege-E-Modul	Modulo de Flessione	ISO 178 (b)	MPa	3210	2960	3030	2500	2000
Charpy Impact Strength	Résistance au Choc Charpy	Schlagzähigkeit nach Charpy	Resistenza Charpy all'urto	ISO 179 (c)	kJ.m <sup>-2</sup>	12	21.7	10	50	65
				ISO 179 (d)	kJ.m <sup>-2</sup>	-	1.2	-	5	7
Izod Impact Strength	Résistance au Choc Izod	Schlagzähigkeit nach Izod	Resistenza Izod all'urto	ISO 180/1A (d)	kJ.m <sup>-2</sup>	-	-	-	5	7
<b>Thermal</b>	<b>Thermiques</b>	<b>Thermische</b>	<b>Termiche</b>							
Vicat Softening Point	Point de Ramollissement Vicat	Vicat-Erweichungstemperatur	Punto di Rammollimento Vicat	ISO 306A	°C	>110	>110	>105	>105	>105
Coefficient of Thermal Expansion	Coefficient de Dilatation Linéaire	Längen-Ausdehnungskoeffizient	Coefficiente di Dilatazione Lineare	ASTM D696	x 10 <sup>-5</sup> . K <sup>-1</sup>	7.7	-	7.8	-	-
<b>Optical</b>	<b>Optiques</b>	<b>Optische</b>	<b>Ottiche</b>							
Light Transmission	Transmission Lumineuse	Lichtdurchlässigkeit	Trasmissione di Luce	ASTM D1003	% (e)	>92	>92	>92	90	89
Refractive Index	Indice de Réfraction	Brechungszahl	Indice di Rifrazione	ISO 489/A	-	1.49	-	1.49	-	-
<b>Electrical</b>	<b>Electriques</b>	<b>Elektrische</b>	<b>Elettriche</b>							
Surface Resistivity	Résistance Surfaccique	Oberflächenwiderstand	Resistenza Superficiale	IEC 93	Ω.m <sup>-2</sup>	>10 <sup>14</sup>	-	>10 <sup>14</sup>	-	-
Electrical Strength	Rigidité Diélectrique	Durchschlagfestigkeit	Rigidità Dielettrica	IEC 243	kV. mm <sup>-1</sup>	15	-	-	-	-

The above data represents typical results obtained using standard test pieces.

Information contained in this publication is given in good faith, but we are unable to guarantee its accuracy or to accept responsibility in respect of factors which are outside our knowledge or control. The data should not form the basis of specifications.

Users of PERSPEX should consult the relevant Health and Safety Data Sheets available from Ineos Acrylics.

PERSPEX is a trademark of Ineos Acrylics

a = 5 mm/min  
b = 2 mm/min

c = un-notched/sans encoche/ungekerbt/senza intaglio  
d = notched/encoché/gekerbt/con intaglio

e = in/en/bei/in 3 mm