



# Plexiglas® V825T-9110 Black

## Acrylic Resin Technical Data Sheet

PROPERTIES	VALUE	UNIT OF MEASURE	TEST METHOD
<b>GENERAL CHARACTERISTICS</b>			
Density (23°C/73.4°F)	1.19	g/cm <sup>3</sup>	ISO 1183
Water Absorption, 24H (23°C/73.4°F, 50% HR)	0.3	%	ISO 62
Mold Shrinkage	0.2 - 0.6	%	ASTM D955
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Index (230°C/446°F, 3.8kg)	2.8	g/10min	ISO 1133
PROCESS – Melt Temperature (Min-Max)	230-250	°C	—
	446-482	°F	
PROCESS – Mold Temperature (Min-Max)	70-90	°C	—
	158-194	°F	
PROCESS – Drying Conditions (4H)	85-90	°C	—
	185-194	°F	
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength at Yield (23°C/73.4°F)	70	MPa	ISO 527
Elongation at Break (23°C/73.4°F)	6	%	ISO 527
Flexural Modulus (23°C/73.4°F)	3300	MPa	ISO 178
Maximum Flexural Stress (23°C/73.4°F)	103	MPa	ISO 178
Compressive Strength (23°C/73.4°F)	117	MPa	ISO 604
Charpy Impact Resistance – Un-notched (23°C/73.4°F)	20	kJ/m <sup>2</sup>	ISO 179-1EU
Charpy Impact Resistance – Notched (23°C/73.4°F)	2	kJ/m <sup>2</sup>	ISO 179-1EA
Izod Impact Resistance – Notched (23°C/73.4°F)	1.8	kJ/m <sup>2</sup>	ISO 180
Surface Hardness (Rockwell Scale M, (23°C/73.4°F))	97	HRM	ASTM D785
<b>COLOR COORDINATES</b>			
L (Light D65 -2° / 3mm)	23.40	—	—
a (Light D65 -2° / 3mm)	-0.15	—	—
b (Light D65 -2° / 3mm)	-0.69	—	—
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point (B50 (50N))	108/226	°C/°F	ISO 306
HDT (1.82 Mpa) <sup>1</sup>	100/212	°C/°F	ISO 75
Coefficient of Linear Expansion (-30°C/-22°F ; 23°C/73.4°F)	65	10 <sup>-6</sup> K	ASTM D696
Specific Heat	2093	J/(kg°C)	—
<b>FLAMMABILITY</b>			
Fire Resistance (3.2mm)	HB	Class	UL-94

<sup>1</sup> Samples were annealed at 88°C/190°F for 16 hours.

Data given are average values and should not be used for specification purposes.

Please consult Arkema's disclaimer regarding the use of Arkema's products on <http://www.arkema.com/en/products/product-safety/disclaimer/index.html>

See SDS for Health & Safety Considerations. Plexiglas® is a registered trademark of Arkema in the Americas.

UL is a registered trademark of UL LLC. ©2020 Arkema Inc. All rights reserved.