

Technical Information



PLEXIGLAS® V825T-9110 Black

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.19 g/cm ³	1.19 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.8 g/10 min	2.8 g/10 min	ISO 1133
Molding Shrinkage - Flow	2.0E-3 to 6.0E-3 in/in	0.20 to 0.60 %	ASTM D955
Water Absorption (24 hr, 73°F (23°C))	0.30 %	0.30 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, 73°F (23°C))	10200 psi	70.0 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	6.0 %	6.0 %	ISO 527-2
Flexural Modulus (73°F (23°C))	479000 psi	3300 MPa	ISO 178
Flexural Stress (73°F (23°C))	14900 psi	103 MPa	ISO 178
Compressive Stress (73°F (23°C))	17000 psi	117 MPa	ISO 604
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	0.95 ft-lb/in ²	2.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	9.5 ft-lb/in ²	20 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (73°F (23°C))	0.86 ft-lb/in ²	1.8 kJ/m ²	ISO 180
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale, 73°F (23°C))	97	97	ISO 2039-2
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed	212 °F	100 °C	ISO 75-2/A
Vicat Softening Temperature	226 °F	108 °C	ISO 306/B50
CLTE - Flow (-22 to 73°F (-30 to 23°C))	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	ASTM D696
Specific Heat	0.500 Btu/lb/°F	2090 J/kg/°C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Optical	Nominal Value (English)	Nominal Value (SI)	
Color a - Light D65 -2° (0.12 in (3.00 mm))	-0.15	-0.15	
Color b - Light D65 -2° (0.12 in (3.00 mm))	-0.69	-0.69	
Color L - Light D65 -2° (0.12 in (3.00 mm))	23.40	23.40	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	185 to 194 °F	85 to 90 °C	
Drying Time	4.0 hr	4.0 hr	
Processing (Melt) Temp	446 to 482 °F	230 to 250 °C	
Mold Temperature	158 to 194 °F	70 to 90 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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