

AKRYLON[®] BLACK 2020

GENERAL

Property	Method	Unit	AKRYLON [®] BLACK 2020
Density	ISO 1183	g/m ³	1.19
Water absorption against dry state (24 h at 23 °C, 50 x 50 x 4 mm ³)	ISO 62-1	%	0.3
Moulding shrinkage	ISO 294-3	%	0.5 – 0.8

MECHANICAL

Modulus of elasticity	ISO 527-2	MPa	3200
Tensile strength	ISO 527-2	MPa	70
Strain at break	ISO 527-2	%	4
Flexural modulus	ISO 178	MPa	3300
Flexural strength	ISO 178	MPa	115
Charpy Impact, strength unnotched	ISO 179-1	kJ/m ²	17
Charpy Impact, strength notched	ISO 179-1	kJ/m ²	2
Ball indentation hardness	ISO 2039-1	MPa	235

OPTICAL

Light transmission, 3mm	ISO 13468-2	%	0
Refractive index n ₂₀ ⁰	ISO 489	-	1.492

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THERMAL

Temperature of deflection under load, method A / B	ISO 75-2	°C	95/100
VICAT Softening temperature, method B50	ISO 306	°C	105
Coefficient of linear thermal expansion	ISO 11359-2	mm/(m*K)	0.07
Service temperature of continuous use	-	°C	70
Max. temperature short term use	-	°C	90
Degradation temperature	-	°C	> 280
Temperature range of thermoforming			
- air pressure	-	°C	140 – 160
- vacuum			160 – 190
Spezific heat capacity	ISO 11357-4	J/gK	1.47
Thermal conductivity	ISO 22007-1	W/mK	0.18

ELECTRICAL

Dielectric strength	IEC 60243-1	kV/mm	30
Volume resistivity	IEC 62631-3-1	Ω m	1013
Surface resistivity	IEC 62631-3-2	Ω	1015
Relative permittivity (100 Hz / 1 MHz)	IEC 62631-2-1	-	2.7
Dieletric dissipation factor (100 Hz / 1MHz)	IEC 62631-2-1	-	0.06

Note: These technical specifications are typical guide values. The actual measured values are subject to production-related fluctuations.

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