

TECHNICAL DATA - PERSPEX / ACRYLIC CLEAR

MATERIAL PROPERTIES	STANDARD	UNIT	VALUE
DENSITY	ISO 1183	g/cm ³	1.19
WATER ABSORPTION (@23 °C / 50 % RH)	ISO 62	%	0.2
REFRACTIVE INDEX 20DEG C	ISO 489		1.49
MECHANICAL			
TENSILE STRESS AT BREAK	ISO 527	MPa	75
MODULUS OF ELASTICITY	ISO 527	N/mm ²	3210
IMPACT STRENGTH	ISO 179	(kJ/m ²)	12
NOTCHED IMPACT STRENGTH	DIN 53453	(kJ/m ²)	2
BALL INDENTATION HARDNESS	ISO2039-1	(N/mm ²)	175
SHORE HARDNESS	DIN 53505	-	-
THERMAL			
MELTING POINT	DIN5376	°C	150
COEFFICIENT OF LINEAR THERMAL EXPANSION (23-60 °C)	ISO 11359	m/(m-K) 7.7*10 ⁻⁵	
MAX WORK TEMP	-	°C	70
MAX BRIEF TEMP	-	°C	90
MIN TEMP	-	°C	- 10
FLAMMABILITY OXYGEN INDEX UL94 (6MM)	4589	%	- HB
ELECTRICAL			
DIELECTRIC CONSTANT	DIN 53483	@50HZ DRY	3
VOLUME RESISTIVITY	DIN 53482	Ohm*cm	>10 ¹⁵
SURFACE RESISTIVITY	DIN 53482	Ohm	>10 ¹⁴
TRACKING RESISTANCE	DIN 53480		NO
DIELECTRIC STRENGTH	DIN 53481	kV/mm	30
PHYSIOLOGICAL			
FOOD CONFORMITY TO			
EU		YES	
FDA		YES	

The electrical properties as stated result from measurements on natural, dry material. With other colours (in particular Black) or saturated material, there may be a clear difference in the electrical properties.

All information given is in good faith and without warranty

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