

:::biacryl:::

Technical Data Sheet

PROPERTY	TEST METHOD	UNITS	VALUE
THERMAL			
Vicat Softening Point	ISO 306A	°C	>110
Heat Deflection Temperature (load)	ISO 75A	°C	>95
Linear Coefficient of Expansion	ISO 11359-2	1/K	7x10-5
Ignition temperature	DIN 51794	°C	>400
OPTICAL			
Light Transmission uncolored	DIN 5036-3	%	>92
Light Transmission 10 years	DIN 5036-3	%	>90
Light Transmission UV over 395 nm	ISO 13468-1	%	>90
After 1000 h Xenon test (ISO 11341-1, 6 mm)	ISO 13468-1	%	>88
Haze	ISO 7724-3	%	1
Refractive Index	ISO 489	%	1,49
MECHANICAL			
Tensile Strength 20 °C	ISO 527-2/1B/5	N/mm2	>72
Tensile Strength 65 °C	ISO 527-2/1B/5	N/mm2	>36
Elongation	ISO 527	%	
Flexural Modulus	ISO 178	N/mm2	>3400
Modulus E	ISO 527-2/1B/5	N/mm2	>3300
Shear Modulus	ISO 527-2/1B/5	N/mm2	1700
Specific Gravity	ISO 1183-1	Kg/cm3	1,19
Flexural Strength (10 ⁶ LW)	ISO 178	N/mm2	>100
Izod Impact Strength		kJ/cm2	1,6
Charpy Impact Strength		kJ/m2	>13
maximum load up to 40 °C (consulted)	ISO 179-1	N/mm2	5 - 10
GENERAL			
Relative Density	ISO 1183-1	g/cm3	1,19
Rockwell Hardness	ISO 2039-2	M Scale	>100
Shrinkage first heating		%	<1,5
Water Absorption		%	0,3
Flammability	RT) DIN 4102		B ₂ normal inflammable

The above data represents typical results obtained using standard test pieces, it should not form the basis of specifications.

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