1.1 Technical data about polycarbonate

		Value	Unit	Standard
Mechanical properties				•
Yield stress (50 mm/min)		63	MPa	ISO 527
Stress at break (50 mm/min)		70	MPa	ISO 527
Yield strain (50 mm/min)		6	%	ISO 527
Strain at break (50 mm/min)		120	%	ISO 527
Tensile modulus (1 mm/min)		2350	MPa	ISO 527
Impact properties				·
Charpy V-notched impact strength	+23°C	75	kJ/m ²	ISO 179/1eA
	-30°C	15	kJ/m ²	ISO 179/1eA
Izod notched impact strength	+23°C	70	kJ/m ²	ISO 180/1A
	-30°C	12	kJ/m ²	ISO 180/1A
Physical properties				·
Density		1,2	g/cm ³	ISO 1183
Water absorption (23° C; saturation)		0,35	%	ISO 62
Moisture absorption (23° C; 50% RH)		0,15	%	ISO 62
Water vapor permeability (23°C;85% RH;0,1mm)		15	g/(m ² 24h)	ISO 15106-1
Thermal properties				
Coefficient of linear thermal expansion (23°C÷55°C)		0,65	10 ⁻⁴ /K	ISO 11359-2
Thermal conductivity		0,20	W/(m K)	ISO 8302
Vicat softening temperature (50N; 120°C/h)		145-149	°C	ISO 306
TYPICAL VALUES REFERRED TO POLYCARBONATE	AS RAW MAT	ERIAL		

