



RAINBOW POLİKARBONAT SAN.TİC.A.Ş.
VAT NO:7342042644
KAYSERİ TURKEY

THECNICAL SPECIFICATIONS OF POLYCARBONATE HOLLOW SHEET

Thermal insulation "U value"	Thickness (mm)	4 2W	6 2W	8 2W	10 2W	
	Uc (Rth 2000 W/m ² . °K)		4,1	3,5	3,2	3,0
g factor total solar radiant heat energy transmitted (solar factor) according to EN 410	Thickness (mm)	4 2W	6 2W	8 2W	10 2W	
	g	0,8	0,67	0,77	0,56	
Index of acoustic attenuation as per NFS 31051 dB(A)	Thickness (mm)	4 2W	6 2W	8 2W	10 2W	
	Acoustic insulation	12,0	16,0	16,0	17,0	
Mechanical specifications	Characteristics	Norm				VALUE - UNIT
	Density	ISO 1183, ASTM D 792, DIN 53479				1.2 g/cm3
	Yield stress	ISO 527, ASTM D 638, DIN 53455				60 Mpa
	Nominal tensile strain at break	ISO 527, ASTM D 638, DIN 53455				> 50%
	Tensile modulus	ISO 527, ASTM D 638, DIN 53457				2300 Mpa
	Hardness on bead penetration H30	ISO 2039, DIN 53456				95 Mpa
	Coefficient of linear thermal expansion (23 & 80 °C)	DIN 53752				7.0 E-5°C-1
	Vicat softening temprature VST/B50	ISO 306, DIN 53460				145°C
	IZOD notched impact strengt (23°)	ISO 180-4A, ASTM D 256A				> 50 KJ/m2
	Impact resistance Charpy at 23°	ISO 179-1eU, ASTM D 256B, DIN 53453				No Break
	Water absorption	ISO 62, ASTM D 570, DIN 53495-1L				0,35%
	Water vapour	DIN 53122-1 permeability				Approx. 15
	Light transmission coefficient (%) according to NF P38-511	Thickness (mm)	4 2W	6 2W	8 2W	10 2W
CLEAR		85	85	85	85	
BRONZE		9	7	5	3	
Fire Classification	Thickness (mm)	4 2W	6 2W	8 2W	10 2W	
	NF P 92-501, 92-504, 92-505	M1	M1	M2	M2	
	DIN 4102	B1	B1	B1	B2	
	EN 13501	B s1 d0	B s1 d0	B s1 d0	B s1 d0	