

**PRODUCT DATA SHEET FOR  
POLY-CARBONATE (PC) EXTRUSIONS**

**Material Characteristics, Test Standards and Typical Results of PC Profile**

S. No.	Characteristics Tested	Standard Followed	Typical Values
1.	SHORE HARDNESS D Rockwell	DIN EN ISO 868	70 <sup>0</sup>
2.	DENSITY Gm/cm <sup>3</sup>	DIN EN ISO 1183	1.20
3.	YIELD STRESS Mpa	DIN EN ISO 527	67
4.	ELONGATION – at Yield %	DIN EN ISO 527	6.3
5.	TENSILE MODULUS OF ELASTICITY MPa	DIN EN ISO 527	2400
6.	NOTCHED IMPACT STRENGTH kJ/m <sup>2</sup>	DIN EN ISO 179	16
7.	THERMAL CONDUCTIVITY W/m.K	ISO 8302	0.20
8.	FIRE BEHAVIOUR	ISO 3795 (> 1.00 mm-USFMVSS)	Pass
		UL 94	V-0 > 4 mm
9.	TEMPERATURE RANGE °C		0 – 145 <sup>0</sup>
10.	OPTICAL REFRACTIVE INDEX	ISO 489	1.587
11.	OPTICAL TRANSMITTANCE  1.00 m  2000 m  4000 m	ISO 134682 - 2	89%
			88%
			87%
12.	OPTICAL HAZE  3000 m	ISO 14782	< 0.80%