

Polypropylene Co-Polymer

Plastic Sheet



Polypropylene co-polymer (PPC) is a bit softer than homopolymer but has a better impact strength as well as being tougher and more durable than homopolymer polypropylene. polypropylene copolymer tends to have better stress crack resistance and low temperature toughness than homopolymer at the expense of quite small reductions in other properties.

Features

- The Flexural Modulus of this material is 1050MPa
- The Density of this material is 0.91g/cm³
- The Hardness Shore D of this material is 60

Availability

- Available in thicknesses from 1mm to 12mm thick
- Sheet sizes are 244cm x 122cm

Benefits and Applications

- Good Impact Strength
- Good Durability
- Good Crack Resistance

Applications

- Packaging
- Appliances
- Automotive
- Industrial

Physical Properties

Property (unit)	Test Method	PPC
Density (g/cm ³)	ISO 1183	0.91
Hardness Shore D	ISO 868	60
Flexural Modulus (MPa)	ISO 178	1050
Tensile Strength Yield (MPa)	ISO R527	26
Elongation at Yield (%)	ISO R527	16
Tensile Modulus (MPa)	ISO 527	900 - 1100

Thermal Properties

Property (unit)	Test Method	PPC
Vicat Softening Point – 9.8N (°C)	ISO 306/A	151
HDT – 0.46MPa (°C)	ISO 75/B	88
Linear Co-efficient of Expansion (°C)	DIN 53752	1x10 ⁻⁴ at 20°C 2x10 ⁻⁴ at 90°C
BS476 Part 7	-	2.5
MVS 302 (1mm & above)	-	0.5
UL94HB (internal Test)	-	475 ~ 198



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This material is often used in these industries:

