

POLYPROPYLENE



COREX – Extruded Polypropylene

GENERAL DESCRIPTION

Polymer: Co-Polymer Polypropylene

Polypropylene is a semi-crystalline thermoplastic and part of the polyolefin's family. Polypropylene is an economic material that offers a combination of outstanding physical, Chemical, mechanical and thermal properties. Features are, light weight, high tensile strength, impact resistant, high compressive strength, resists most alkalis and acids, resists cracking, retains stiffness and flex, low moisture absorption, non toxic, non staining and can be easily fabricated. In addition polypropylene has excellent recycling properties.



APPLICATIONS

- Fabricated bulk bin linings
- Food storage containers
- Chemical resistant tanks, linings and consoles
- Sinks and ducts
- Lavatory partitions
- Die cutting pads
- Clean room walls, floors and ceilings
- Vacuum forming (specific grades)
- Prosthetic devices
- Divider sheets



INCLUSIONS

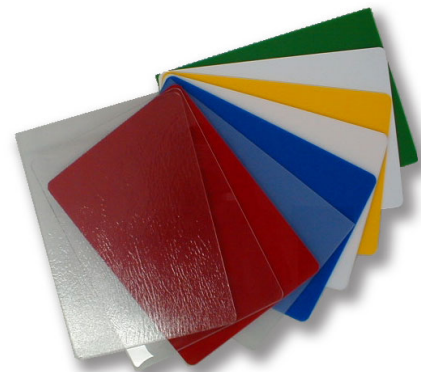
Corex extruded co-polymer Polypropylene is available with:

- Very high impact additives
- High UV grades
- Embossed finish
- Foam lamination
- Corona treatment to certain gauges



PRODUCT PARAMETERS

GAUGE	2.5mm – 7mm
LENGTH	to 3000mm
WIDTH	to 1600mm
COLOURS	On application
EMBOSSING	Pin Seal to 1600mm



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PROPERTY (TYPICAL VALUE)	UNIT	VALUE	TEST METHOD
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MECHANICAL & PHYSICAL

Tensile Strength at Yield			
Co-polymer	MPa	33	ASTM D638
Homopolymer	MPa	28	ASTM D638
Random	MPa		ASTM D638
Flexural Modulus			
Co-polymer	MPa	1150	ASTM D790
Homopolymer	MPa	1400	ASTM D790
Random	MPa	1050	ASTM D790
Notched Izod Impact Strength			
Co-polymer	J/m	530	ASTM D256
Homopolymer	J/m	53	ASTM D256
Random	J/m	500	ASTM D256
Specific Gravity			
Co-polymer		.9	ASTM D792
Homopolymer		.905	ASTM D792
Random		.9	ASTM D792

THERMAL

Heat deflection temp			
Co-polymer	°C	50	ASTMD648
Homopolymer	°C	51	ASTMD648
Random	°C	50	ASTMD648
Thermal Expansion			
Co-polymer	Cm/cm/°Cx10 ⁻⁵	11	ASTM D696
Homopolymer	Cm/cm/°Cx10 ⁻⁵	11	ASTM D696
Random	Cm/cm/°Cx10 ⁻⁵	11	ASTM D696

DIMENSIONAL TOLERANCE

THICKNESS Nominal thickness ±5%

LENGTH Nominal length + 1.6%

WIDTH Nominal width +4mm – 0mm

Polypropylene

This data sheet contains typical values resulting from the stated test and is subject to nominal variation.

Where orientation affects the numerical value, the tests have been conducted in the machine direction.

For further information or enquiries regarding this data, please contact:

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