Refining & Chemicals
Polymers

Technical data sheet
Polypropylene – Heterophasic Copolymer
Produced in Europe

Description

Total Petrochemicals PPC 2660 is a heterophasic copolymer polypropylene with a Melt Flow Index of 0.8 g/min for the manufacturing of films with very good mechanical properties in the blown process.

Polypropylene PPC 2660 is intended for applications requiring high mechanical properties like heavy duty bags, lamination films, retortable food packaging,…

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	0.8
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	24
Elongation at Yield	ISO 527-2	%	13
Tensile Modulus	ISO 527-2	MPa	1200
Flexural Modulus	ISO 178	MPa	1100
Izod Impact Strength (notched)	ISO 180	kJ/m^2	
At 23°C			>50
At (-20)°C			6
Charpy Impact Strength (notched)	ISO 179	KJ/m^2	
At 23°C			>50
At (-20)°C			6
Hardness Rockwell – R-scale	ISO 2039-2		74
Thermal properties			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			70
10N-50°C per hour			148
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa – 120°C per hour			50
0.45 MPa – 120°C per hour			88
Other physical properties			
Density	ISO 1183	g/cm^3	0.902
Bulk Density	ISO 1183	g/cm^3	0.525

Polypropylene

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Additional Properties: typical film properties

	Method	Unit	Typical Value
Optical properties			
Gloss	ASTM D 2457		14
Haze	ISO 14782	%	41
Mechanical properties			
Tensile Strength at Yield MD *	ISO 527-3	MPa	30
Tensile Strength at Break MD *	ISO 527-3	MPa	80
Tensile Elongation at Break MD *	ISO 527-3	%	600
Dart Impact	ISO 7765-1	g	100
Elmendorf MD / TD *	ISO 6383-2	N/mm	5 / 45

* MD : Machine Direction TD : Transverse Direction

Properties measured on a 40µm thick film produced on a blown film line following TOTAL internal conditions.
When considering these film properties, it should be taken into consideration that film properties are strongly dependent from processing conditions.

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: http://www.totalrefiningchemicals.com

Polypropylene