

PRODUCTS CATALOG



 **Petrocuyo**

The logo for Petrocuuyo features a stylized blue 'P' icon on the left, composed of two overlapping shapes. To its right, the word 'Petrocuuyo' is written in a bold, blue, sans-serif font.

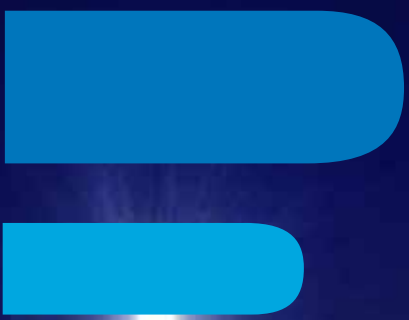
Petrocuuyo

Petrocuuyo is the result of the merger of Petroquímica Cuyo and Petroken, companies with more than 30 years experience and internationally and locally wellknown. Thus, it is settled an Argentinean company which from the very beginning has been operating strengthened by technological and human synergies.

Petrocuuyo offers a complete range of polypropylenes: homopolymers, impact and random copolymers, special polyolefins and PP compounds.

The production plants are located in Luján de Cuyo, Mendoza Province, and in Ensenada, Buenos Aires. Its installed capacity totals 310,000 tons per year. Taking into account its productive processes, Petrocuuyo operates with Novolen Technologies in its gas phase and with LIPP in its liquid phase. Renewed Technical Assistance Agreements with Lummus Novolen Technology GmbH (PP) and Basell Poliolefine Italia SRL (PP and PP Compounds) guarantee up-to-date technology.

Petrocuuyo, a new company, an experienced member of the Polypropylene market.



PRODUCTS

HOMOPOLYMERS

MECHANICAL AND THERMAL PROPERTIES

	1102 E	1102 H	HYS 6200	JED 6199	1103 K	1102 K	KYD 6110	1025 X	1102 L	LYD 6200K	RFD 6140K	RFD 6190K	1100 N	SMD 6200	1100 SC	WSD 6600K	XSD 6601K	1100 T	XSD 6200T	1026 CX
MFI (g/10 min)	1	1,8	1,8	2	2,9	3,4	3	3	5	5	8	8	11	13	25	25	32	37	35	37
Bending Modulus (MPa)	1400	1400	1400	1500	1300	1450	1450	1750	1450	1450	1450	1450	1450	1450	1450	1400	1400	1450	1400	1930
Tensile stress at yield (MPa)	34	34	34	35	34	34	34	39	34	34	34	34	35	34	34	34	38	34	34	43
Elongation at yield (%)	9	9	9	9	12	9	9	9	9	9	9	9	8	9	8	9	8	8	8	8
Charpy c/e a 23 °C (KJ/m ²)	7	5	5	5	6	4	4	5,2	3,5	4	3	3	3	3	2,5	2,5	2	2	2	2,1
HDT A (°C)	55	55	55	55	51	55	55	59	55	55	55	55	55	55	55	55	55	55	55	62
HDT B (°C)	85	85	85	85	85	85	85	104	85	85	85	85	85	85	85	85	85	85	80	119

REFERENCES

1 ST LETTER	2 ND LETTER	3 RD LETTER	BALANCE AND ADDITIVES				
MELT NOMINAL INDEX	APPLICATION	TYPE OF POLYMER	6	1	0	0	K
= 1,8 = 3,0 = 4,0 = 8,0 = 11,0 = 25,0 = 35,0	M = INJECTION MOLDING E = GENERAL EXTRUSION AND BLOWING Y = RAFFIA - EXTRUSION F = FILM S = FIBERS AND FILAMENTS	HOMOPOLYMER	STANDARD PROGRESS BALANCE	STANDARD FINAL BALANCE	WITHOUT ADDITIONAL FORMULA		MODIFIED DISTRIBUTION OF MOLECULAR WEIGHTS

(1) Injected specimen of 4mm*10mm*80mm

(2) Injected specimen in accordance with ISO 3167/A

1st Digit: Type of Polymer

- 1: Homopolymer
- 2: Impact Copolymer
- 3: Random Copolymer

2nd Digit: Impact Resilience

As the first digit, the greater the second digit is, the greater resistance to impact there is.

3rd and 4th Digits: Balance and additives

1st Letter: Type of yield
E: 0,8 H: 1,8 L: 5 N: 11 S: 25
U: 70 K: 3 M: 8 P: 15 T: 40

2nd Letter: Internal Indications

HOMOPOLYMERS	PRODUCTS														FEATURES				
	YIELD (GR/10')	BENDING MODULUS (MPa)	IMPACT KJ/M2 IZOD C/E 23°	RAFFIA	COATING	THERMOFORMING	STRIPS	BLOWING	TWQ	CASTFILM	FIBER - NWS	PIPES	COMPRESSION MOLDING	GEN. INJECTION		GEN. SHEET EXTRUSION	MULTIFILAMENT	BOPP	BCF/CF
1102 E	1	1400	7									●		●					Suitable for extrusion of pipes and parts requiring very good mechanical properties. Very good melting stability and processability.
1102 H	1,8	1400	5	●		●	●	●				●							Very good melting stability and processability.
HYS 6200	1,8	1400	5	●		●	●	●				●		●					Very good melting stability and processability. Suitable for general extrusion.
JED 6199	2	1500	5									●							Low fluidity. Excelent balance of mechanical properties. Special additives. Suitable for compression molding (SACMI).
1103 K	2,9	1300	6														●		Designed specially for high-speed BOPP lines.
1102 K	3,4	1450	4	●		●	●												Very good processability and low water drag.
KYD 6110	3	1430	4	●		●	●												Medium yield. Good resilience-processability balance. Lines with Chill Roll.
1025 X	3	1750	5,2			●													Suitable for thermoforming of parts requiring high rigidity and good optical properties. Excellent stability. High rigidity.
1102 L	5	1450	3,5	●										●					Medium yield. Disegned specially for high-speed raffia lines.
LYD 6200K	5	1450	4	●										●					Medium yield. High production lines.
RFD 6140K	8	1450	3						●										High transparency and gloss. Excellent mechanical properties. Antiblocking and sliding additives. Controlled rheology.
RFD 6190K	8	1450	3							●									Very good processability. Flat plate processes (cast.). Suitable for high-speed lines.
1100 N	11	1450	3											●			●		Very good surface gloss and rigidity. Excellent processability.
SMD 6200	13	1450	3											●			●		Medium yield. Normal molecular weight distribution. Excellent processability.
1100 SC	25	1450	2,5		●									●			●		High yield. Low distortion after molding. Good stability during the spinning process.
WSD 6600K	25	1400	2,5											●		●			Excellent processability. Narrow distribution of molecular weight. Suitable for extrusion. High tenacity multifilaments.
XSD 6601K	32	1400	2								●								High yield. Narrow distribution of molecular weight. Anti-gas fading protection. Suitable for Nonwovens. Reicofil lines.
1100 T	37	1450	2		●									●					Very good yield. Suitable for thin-walled parts injection.
XSD 6200T	35	1400	2		●									●					High yield. Suitable for injection processes. Thin wall and coating over woven raffia and other substrates. Controlled rheology.
1026 CX	37	1930	2,1											●					Suitable for thin-walled parts injection. Fast cycles. High yield. Parts with high rigidity, low distortion after molding. Nucleated.

	UNITS	TEST METHOD	BLOCK COPOLYMER						RANDOM				SP
			2500 E	2016 X	2240 P	2630 PC	2600 TC	2028 CX	3240 H	3240 NC	3240 SC	3020 CX	SP 311
MFI	g/10 min	ISO 1133	0,8	7	15	15	60	80	1,5	11	25	40	0,3
BENDING MODULUS (1)	MPa	ISO 178	1100	1400	1500	1050	1250	1200	1100	1100	1100	1400	830
TENSILE STRESS AT YIELD (2)	MPa	ISO 527-2	22	32	31	23	27	25	26	25	29	34	25
ELONGATION AT YIELD (2)	%	ISO 527-2	9	6	6	8	6,5	6	12	12	11	11	11
CHARPY C/E A 23 °C (1)	KJ/m ²	ISO 179	60	10	7	13	6,5	6,5	10	6	6	4,8	50
CHARPY C/E A 0 °C (1)	KJ/m ²	ISO 179	10	6	3	8	4,2	4,1	2	1,8	1,7	1,1	5
CHARPY C/E A -30 °C (1)	KJ/m ²	ISO 179	5	4	2	4	2,5	2,3	-	-	-	-	46
HDT A (1)	°C	ISO 75-2	50	60	55	50	53	55	50	48	50	54	-
HDT B (1)	°C	ISO 75-2	82	103	95	82	94	92	80	70	70	89	70

MECHANICAL AND THERMAL PROPERTIES

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	PRODUCTS													FEATURES
	YIELD (GR/10')	BENDING MODULUS (MPA)	IMPACT KJ/ M ² IZOD C/F 23 ^o	COATING	THERMOFORMING	STRIPS	BLOWING	BLOW FILM	CASTFILM	PIPES	MOLDING COMPRESSION	GEN. INJECTION		
COPOLYMERS BLOCK	2500 E	0,8	1100	60		●	●	●			●		High molecular weight. Good melting stability.	
	2016 X	7	1400	10							●	●	Mechanical properties very well balanced. Special additives for soft drinks' caps.	
	2240 P	15	1500	7								●	Excellent rigidity-impact balance.	
	2630 PC	15	1050	13								●	Medium yield. Low distortion after molding. It has demolding.	
	2600 TC	60	1250	6,5	●							●	High yield. Low distortion after molding. Fast cycles.	
	2028 CX	80	1200	6,5								●	High yield. Low distortion after molding. Thin film. Good properties balance. Fast cycles. Nucleated.	
	3240 H	1,5	1100	10		●		●	●				Excellent transparency. Very good rigidity-impact balance and melting stability.	
	3240 NC	11	1100	6								●	Very good impact resilience to room temperature. Excellent transparency.	
	3240 SC	26	1100	6								●	High fluidity and low distortion after molding. Suitable for thin-walled parts injection. Excellent transparency.	
	3020 CX	40	1400	4,8								●	High yield. Excellent transparency. Thin film. Fast cycles. Clarified.	
SP	SP 311	0,3	830	50							●	●	Mechanical properties very well balanced. Special additives for thermal fusing pipes.	





GESTION
DE LA CALIDAD

RI-9000-0048



GESTION
AMBIENTAL

RI-14000-700



GESTION
S&S

RI-18000-036



ISO 9001
ISO 14001
OHSAS 18001
BUREAU VERITAS
Certification



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