

**(TU 2211-136-05766801-2006)**

**Produced under License Agreement with Basell Technology Inc.**

Product is obtained by polymerization of propylene in presence of complex organic metal catalysts.

## HOMOPOLYMER POLYPROPYLENE

Polypropylene homo-polymer possesses increased long-term thermal stability, to thermo-oxidative destruction in the process of PP production, PP processing and PP articles usage.

### Application:

<b>PP 1300 R</b>	moulded technical and domestic articles, compounding, PP sacks lamination, film
<b>PP 1362 R</b>	diapers, medical and sanitary fabric, furniture topping and upholstery nonwoven fabric produced of melt
<b>PP 1365 S</b>	diapers, medical and sanitary fabric, furniture topping and upholstery nonwoven fabric
<b>PP 1401 D</b>	shaped articles, pipes, extrusion, tubular film
<b>PP 1425 J</b>	biaxial oriented, uni- and multilayer metallised film
<b>PP 1525 J</b>	biaxial oriented, uni- and multilayer metallised film
<b>PP 1532 B</b>	high temperature sewers, profiles, extrusion, blow moulding
<b>PP 1500 J</b>	injection moulding and extrusion articles for technical and domestic use
<b>PP 1500 N</b>	injection moulding and extrusion articles for technical and domestic use
<b>PP 1550 J</b>	film thread for bags, packing rope and string
<b>PP 2641 J</b>	extrusion, hot moulding

### MAIN QUALITY SPECIFICATIONS

TEST METHOD	PP 1300R	PP 1362 R	PP 1365 S	PP 1401 D	PP 1425J	
	(Z30G)	(Z21S)	(H22S)	(Q30P)	(T28C)	
	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	
Flow-melt index, g/10 min., within the range	ASTM D 1238/L	20-30	25	40 - 45	0,5 – 0,9	2.9 – 3.2
Flexural modulus, MPa, min.	ASTM D 790	1350	1050	1100	1300	1300
Izod impact strength at 23°C, J/m, min.	ASTM D 256	25	25	25	100	50
Tensile strength, MPa, min.	ASTM D 638	31	29	31	34	34
Ultimate tensile elongation, %, min.	ASTM D 638	11	12	8	10	10

### MAIN QUALITY SPECIFICATIONS

TEST METHOD	PP 1525J	PP 1532 B	PP 1500J	PP 1500N	PP 1550J	PP 2641J	
	(T28F)	(YD50G)	(T30G)	(F30G)	(T30S)	(T31SE)	
	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	
Flow-melt index, g/10 min., within the range	ASTM D 1238/L	2.9 – 3.2	0,8 - 1,2 (at 5 kg/230 °C)	2.4 – 3.7	11 – 13	3.0 – 3.3	3.6 – 4.2
Flexural modulus, MPa, min.	ASTM D 790	1400	1400	1400	1400	1500	1500
Izod impact strength at 23°C, J/m, min.	ASTM D 256	45	100	45	25	45	40
Tensile strength, MPa, min.	ASTM D 638	34	33	34	33	34	34
Ultimate tensile elongation, %, min.	ASTM D 638	10	11	10	10	10	9

## BLOCK COPOLYMER PROPYLENE WITH ETHYLENE

Products obtained by copolymerisation of propylene and ethylene in presence of complex metal organic catalysts. It incorporates increased long term thermal stability, thermal oxidative degradation resistance when PP is produced, processed and PP-made articles are exploited.

### Application:

<b>PP 8300 G</b>	blow moulding, extrusion and hot shaping
<b>PP 8300 K</b>	packaging, profiles, hot shaping, blow moulding, injection moulding
<b>PP 8300 M</b>	packaging, dish ware, automobile parts, compounding, jet moulding
<b>PP 8300 N</b>	packaging, dish ware, automobile parts, compounding, jet moulding
<b>PP 8332 M</b>	cell jars, finishing agents for luggage bags, cables, wires
<b>PP 8340 S</b>	thin wall injection moulding, furniture, toys, injection moulding
<b>PP 8348 S</b>	thin wall injection moulding, injection moulding

### MAIN QUALITY SPECIFICATIONS

TEST METHOD	PP 8300G (EPYS30RE)	PP 8300K (EPT30R)	PP 8300M (EPC30R)	PP 8300N	PP 8332M (EPC40R)	PP 8340S (EPYH31U)	PP 8348S (EPH31RA)
	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value
Flow-melt index, g/10 min., within the range	ASTM D 1238/L 1,2-1,5	3-4	6 – 8	10-15	6-8	38-48	38-50
Flexural modulus, MPa, min.	ASTM D 790 1050	1100	1200	1000	1100	1100	1150
Izod impact strength, kJ/m, min.	ASTM D 256 550	160	89	85	90	65	55
	at 23° C 50	40	35	35	35	35	25
Tensile strength, MPa, min.	ASTM D 638 26	26	26	26	26	24	26
Ultimate tensile elongation, %, min.	ASTM D 638 11	7	7	6	8	4	4

**Supply form** Granules

**Packaging** Product is packed into polyethylene bags (25±0.25 kg) and bundled on flat pallets with thermosetting film. Shipping weight of a package is max. 2 t. Upon agreement with the customer, propylene granules might be loaded into specialized carriages for granular polymer materials and polymer truck carriers without packaging as well as might be delivered in bags by railcars.

**Transportation** Product may be transported in packages by all types of covered transportation means in accordance with the Rules of Goods Transportation.

**Storage** Polypropylene shall be stored in sheltered, dry warehouses, which prevent direct sun rays, on shelves or pallets, at least 5 cm from the floor, and at least 1 m from heating devices, at temperature max. 30 °C and relative humidity max. 80%. Prior to processing, bags with polymer shall be kept for at least 12 hours in the production room.

## STATIC COPOLYMER PROPYLENE AND ETHYLENE

Products obtained by copolymerisation of propylene and ethylene in presence of complex metalorganic catalysts. It incorporates increased long term thermal stability, thermal oxidative degradation resistance when PP is produced, processed and PP-made articles are exploited.

### Application:

<b>PP 4210 L</b>	extrusion film grade
<b>PP 4310 M</b>	extrusion film, injection moulding caps
<b>PP 4340 R</b>	thin wall injection moulding, dishware
<b>PP 4340 S</b>	thin wall injection moulding
<b>PP 4345 S</b>	high-speed jet moulding, high-quality packaging, transparent containers and covers
<b>PP 4132 B</b>	water supply pressure pipes, class PPR80

### MAIN QUALITY SPECIFICATIONS

	TEST METHOD	PP 4210 L (EP2C30F)	PP 4310 M (EP1X30F)
		Typical Value	Typical Value
Flow-melt index, g/10 min., within the range	ASTM D1238/L	5 - 7	7 - 10
Flexural modulus, MPa, min.	ASTM D 790	850	1050
Izod impact strength at 23 °C, J/m, min.	ASTM D 256	45	35
Tensile strength, MPa, min.	ASTM D 638	26	29
Ultimate tensile elongation, %, min.	ASTM D 638	10	10

### MAIN QUALITY SPECIFICATIONS

	TEST METHOD	PP 4340 R (EP2Z29G)	PP 4340 S (EP2H49G)
		Typical Value	Typical Value
Flow-melt index, g/10 min., within the range	ASTM D1238/L	22 - 28	38 - 46
Flexural modulus, MPa, min.	ASTM D 790	930	950
Izod impact strength at 23 °C, J/m, min.	ASTM D 256	50	45
Tensile strength, MPa, min.	ASTM D 638	27	25
Ultimate tensile elongation, %, min.	ASTM D 638	10	10

### MAIN QUALITY SPECIFICATIONS

	TEST METHOD	PP 4345 S
		Typical Value
Flow-melt index (at 2.16kg/230°C), g/10 min, in the range	ASTM D1238/L	35 - 45
Flexural modulus, MPa, min.	ASTM D 790	950
Izod impact strength (at 23 °C), J/m, min.	ASTM D 256	45
Tensile strength at yield point, MPa, min.	ASTM D 638	NR
Elongation at yield point, %, min	ASTM D 638	NR

## MAIN QUALITY SPECIFICATIONS

	TEST METHOD	PP 4132 B (PA14D) Typical Value
Flow-melt index , g/10 min, in the range		
- at 5kg /230°C	ASTM D1238/L	0.9 – 1.5
- at 2.16 kg /230°C		0.2 – 0.4
- at 5 kg /190°C		0.4 – 0.7
Flexural modulus, MPa, min.	ASTM D 790	850
Izod impact strength (at 20 °C), J/m, min.	ASTM D 256	40
Tensile strength at yield point, MPa, min.	ASTM D 638	27
Elongation at yield point, %, min	ASTM D 638	11

**Supply form** Granules

**Packaging** Product is packed into polyethylene bags (25±0.25 kg) and bundled on flat pallets with thermosetting film. Shipping weight of a package is max. 2 t. Upon agreement with the customer, propylene granules might be loaded into specialized carriages for granular polymer materials and polymer truck carriers without packaging as well as might be delivered in bags by railcars.

**Transportation** Product may be transported in packages by all types of covered transportation means in accordance with the Rules of Goods Transportation.

**Storage** Polypropylene shall be stored in sheltered, dry warehouses, which prevent direct sun rays, on shelves or pallets, at least 5 cm from the floor, and at least 1 m from heating devices, at temperature max. 30°C and relative humidity max. 80%. Prior to processing, bags with polymer shall be kept for at least 12 hours in the production room.