

PROPERTIES	PHYSICAL			MECHANICAL						ESCR	TYPICAL CUSTOMER APPLICATIONS
	Density 23°C	Melt Flow Rate		Tensile Modulus	Tensile Stress at Yield	Tensile Strain at Yield	Tensile Impact Strength; notched	Charpy Impact Strength; notched	Ball indentation hardness (H132/30)	FNCT	
		190°C, 2.16kg	190°C, 5kg				-30°C	-30°C		3.5 MPa, 80°C, 2 % Arkopal	
Test Method	ISO 1183	ISO 1133-1		ISO 527-1, -2		ISO 8256/1A	ISO 179-1/1eA	ISO 2039-1	ISO 16770		
Unit	g/cm ³	g/10 min		MPa	MPa	%	kJ/m ²	kJ/m ²	MPa	h	
High Density Polyethylene - Lupolen											
<i>Lupolen 5021 DX</i>	0.950	0.25	1.0	1000	25	9	100	6.0	45	10	Good ESCR; good chemical resistance; good impact resistance; good organoleptic prop.; engineering parts, packaging for surfactants, consumer goods; due to high impact and stress cracking resistance potentially usable for packaging of dangerous goods
High Density Polyethylene - Hostalen											
<i>Hostalen GF 4750</i>	0.950	0.4	1.5	1000	23	10	80	5.5	44	15	High ESCR; packaging of surfactants, consumer goods and potentially for dangerous goods
<i>Hostalen ACP 5231 D</i>	0.952	0.3	1.2	1100	25	8	75	6.0	51	30	Very high ESCR balanced with good stiffness. Packaging for detergents and personal care, engineering parts, toys. Due to high impact and stress cracking resistance potentially usable for packaging of dangerous goods
<i>Hostalen ACP 5831 D</i>	0.958	0.3	1.2	1350	28	7.5	75	6.5	60	8	Excellent balance of high stiffness and high ESCR; high rigidity; toys, packaging of consumer goods
<i>Hostalen ACP 6031 D</i>	0.960	0.35	1.2	1420	30	7	65	6.0	63	7	Excellent balance of highest stiffness and good ESCR; very high rigidity; packaging of consumer goods
Circular High Density Polyethylene - Hostalen QCP											
<i>Hostalen QCP 5603 Grey Plus</i>	0.955	0.40	1.9	840	23	50	-	12*	-	-	Circular HDPE containing ≥ 95 % post consumer material. Supplied in pellet form. Characterized by low residual odor and good processability. General purpose grade for bottles up to 5 liters for personal care, household, industrial liquids and other blow moulded articles (e.g. toys, watering cans). Not intended for higher regulated applications like food.
<i>Hostalen QCP 5603 Ivory Plus</i>	0.955	0.30	1.45	900	24	40	-	15*	-	-	Circular HDPE containing ≥ 95 % post consumer material. Supplied in pellet form. Characterized by low residual odor, easy processability and colorability. General purpose grade for bottles up to 5 liters for personal care, household, industrial liquids and other blow moulded articles (e.g. toys, watering cans). Not intended for higher regulated applications like food.
<i>Hostalen QCP 5603 Grey</i>	0.955	0.40	1.9	875	23	50	-	15*	-	-	Circular HDPE containing ≥ 95 % post consumer material. Supplied in pellet form. General purpose grade for blow moulded bottles up to 5 liters for household and industrial chemicals. Not intended for higher regulated applications like food.
<i>Hostalen QCP 5603 Ivory</i>	0.958	0.30	1.5	900	24	40	-	15*	-	-	Circular HDPE containing ≥ 95 % post consumer material. Supplied in pellet form. General purpose grade for blow moulded bottles up to 5 liters for household and industrial chemicals. Not intended for higher regulated applications like food.

ESCR = Environmental Stress Crack Resistance; FNCT = Full Notch Creep Test
 Hostalen QCP grades are measured on IM specimens; * at +23 °C

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	Density 23°C	Melt Flow Rate	Tensile Modulus	Tensile Stress at Yield	Tensile Strain at Yield	Charpy Impact Strength; notched		Ball indentation hardness (H132/30)	Haze (1mm)	
		230°C, 2.16 kg				23°C	0°C			
Test Method	ISO 1183	ISO 1133-1	ISO 527-1, -2			ISO 179-1/1eA		ISO 2039-1	ASTM D1003	
Unit	g/cm ³	g/10 min	MPa	MPa	%	kJ/m ²		MPa	%	
PP Homopolymer - Moplen										
<i>Moplen</i> HP501H	0.9	2.1	1450	33	9	8	-	72	-	Good stiffness/ impact balance
PP Random Copolymer - Moplen										
<i>Moplen</i> RP210G	0.9	1.8	950	25	14	6	2.0	-	-	Bottles
<i>Moplen</i> RP241H	0.9	1.8	850	24	14	45	4.0	45	9	NU; high transparency and impact strength; bottles for food, detergents, household chemicals
<i>Moplen</i> RP340H	0.9	1.8	1100	30	13	28	2.5	56	11	NU; high transparency and stiffness; bottles
<i>Moplen</i> RP390H	0.9	1.8	1050	29	13	26	3.5	56	15	NU; improved transparency, gloss and processability; bottles with high optical performance
<i>Moplen</i> RP340N	0.9	1.1	1150	30	14	6	2.0	48	9	NU; high transparency and stiffness; suitable for ISBM
PP Heterophasic Copolymer - Moplen										
<i>Moplen</i> EP 440G	0.9	1.3	1450	27	8	40	10.0	48	-	High stiffness, very high impact strength at room and sub-zero temp.; good dimensional stability and excellent creep resistance
Clyrell										
<i>Clyrell</i> RC124H	0.9	2.2	750	25	15	30	6.5	-	15	High transparency and impact resistance; Haze (40µm Film): 1%

ISBM = Injection Stretch Blow Molding; NU = Nucleated

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