

Polyethylene

Grades Used in Injection Molding Applications (1/2)

PROPERTIES	PHYSICAL			MECHANICAL						THERMAL	ESCR	SPECIFIC CHARACTERISTICS AND TYPICAL CUSTOMER APPLICATIONS	
	Density 23°C	Melt Flow Rate		Tensile Modulus	Tensile Stress at Yield	Tensile Strain at Yield	Charpy Notched Impact Strength		Shore Hardness (Shore D)	Ball indentation hardness (H132/30)	Vicat Soften- ing Tempera- ture (B/50)		FNCT 6.0 MPa, 2% Arkopal, 50°C
		190°C, 2.16kg	190°C, 5kg				23 °	-30 °C					
Test Method	ISO 1183-1	ISO 1133-1		ISO 527-1, -2			ISO 179-1/1eA		ISO 868	ISO 2039-1	ISO 306		ISO 16770
Unit	g/cm ³	g/10 min		MPa	MPa	%	kJ/m ²			MPa	°C		h
High Density Polyethylene, <i>Hostalen</i>													
<i>Hostalen</i> GC 7260	0.960	8.0	23	1450	30	7	4.0	4.5	61	58	74	2.5	High stiffness, good impact resistance at low temperatures and optimum ESCR. Typical customer applications: crates, cartridges, caps & closures, toys & leisure products, housewares and panels & profiles
<i>Hostalen</i> GC 7260 LS	0.960	8.0	23	1450	30	7	4.0	4.5	61	58	74	2.5	Light-stabilized (UV) grade with high stiffness, good impact resistance at low temperatures and optimum ESCR. Typical customer applications: crates, toys & leisure products, housewares, panels & profiles and lids for dust bins
<i>Hostalen</i> GC 7258	0.958	7.5	22	1400	28	7	4.0	4.5	62	56	73	2.8	High stiffness combined with optimum ESCR, good impact resistance at low temperatures and low warpage. Typical customer applications: cartridges, caps & closures, crates, toys & leisure, housewares and panels & profiles
<i>Hostalen</i> GD 7255	0.955	4.0	11	1200	27	8	4.0	4.5	60	52	73	4.5	High impact resistance at low temperature, good stiffness and optimum ESCR. Typical customer applications: crates, caps & closures, toys & leisure products, housewares, panels & profiles and pallets
<i>Hostalen</i> GD 7255 LS	0.955	4.0	11	1200	27	8	4.0	4.5	60	52	73	4.5	Light-stabilized (UV) grade with high impact resistance at low temperatures, good stiffness and optimum ESCR. Typical customer applications: crates, caps & closures, toys & leisure products, panels & profiles, dust bins and pallets

ESCR = Environmental Stress Crack Resistance; FNCT = Full Notch Creep Test

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Polyethylene

Grades Used in Injection Molding Applications (2/2)

PROPERTIES	PHYSICAL			MECHANICAL						THERMAL	SPECIFIC CHARACTERISTICS AND TYPICAL CUSTOMER APPLICATIONS	
	Density 23°C	Melt Flow Rate		Tensile Modulus	Tensile Stress at Yield	Tensile Strain at Yield	Charpy notched impact strength		Shore Hardness (Shore D)	Ball indentation hardness (H132/30)		Vicat Softening Temperature (B/50)
		190°C, 2.16kg	190°C, 5kg				23 °	-30 °C				
Test Method	ISO 1183-1	ISO 1133-1		ISO 527-1,-2			ISO 179-1/1eA	ISO 868	ISO 2039-1	ISO 306		
Unit	g/cm ³	g/10 min		MPa	MPa	%	kJ/m ²			MPa		°C
Low Density Polyethylene, Lupolen												
<i>Lupolen 1800 H</i>	0.919	1.5	-	200	9	NA	NA	NA	45	15	88	Low density, good flexibility, high impact and optimum ESCR. Typical applications: shoe insoles, pipe clamps, lids, car boot/trunk lining, brushes and champagne corks
<i>Lupolen 1800 P</i>	0.918	15	-	200	9	NA	NA	NA	45	12	80	Low density, good flexibility and high flowability. Other applications include use as a base resin for masterbatches and compounding
<i>Lupolen 1800 S</i>	0.917	20	-	160	8	NA	NA	NA	45	13	80	Low density, good flexibility and high flowability. Typical customer applications: ink cartridges, shoes and flippers for swimming, and brushes. Other applications include use as a base resin for masterbatches and compounding
<i>Lupolen 1800 U</i>	0.918	65	-	180	8	NA	NA	NA	45	12	75	Very high flowability with good balance of toughness, softness, dimensional stability and easy processability. Typical customer applications: consumer packaging and thin-wall injection molding. Other applications include use in masterbatches and as a viscosity modifier for compounds
<i>Lupolen 2420 K</i>	0.924	4	-	260	11	NA	NA	NA	48	18	92	Medium-flow LDPE with good impact resistance and optimum ESCR. Typical customer applications: collector trays for perforators, seals, bottle closures & packaging and safety traps in baby high chairs. Additional version (<i>Lupolen 2426K</i>) with slip agent available
<i>Lupolen 3020 K</i>	0.928	4	-	300	13	NA	NA	NA	51	21	97	Medium-flow LDPE with good stiffness and optimum ESCR. Typical customer applications: ink cartridges and hand grips. Additional version (<i>Lupolen 3026K</i>) with slip agent available

NA = Not Applicable

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