

HDPE 2.00 mm

Cod. Art. HE0200DP

CARATTERISTICHE TECNICHE (*)		NORME
Thickness (a)	2.00 mm	DIN EN ISO 9863-1
Density	≥ 0.94 g/cm ³	DIN EN ISO 1183-1/A
Tensile Properties (each Direction)		DIN EN ISO 527-3 (Type 5; 100 mm/min; lo = 50 mm)
- Stress at Yield	17 (16) MPa	
- Elongation at Yield	11 (10) %	
- Stress at Break	35 (26) MPa	
- Elongation at Break	800 (700) %	
Tear Resistance	285 (265) N	DIN ISO 34-1/B (a)
Puncture Resistance	5,150 (4,750) N	DIN EN ISO 12236
Carbon Black Content	2.0 – 3.0 %	ASTM D 4218
Carbon Black Dispersion	1/2 (b) Category	ASTM D 5596
Dimensional Stability (each Direction)	± 2 %	DIN 53377 (120°C/1 h)
Melt Flow Index (c)	≤ 3.0 g/10 min (190°C / 5.0 kg)	DIN EN ISO 1133
	≤ 1.0 g/10 min (190°C / 2.16 kg)	DIN EN ISO 1133
Stress Crack Resistance (NCTL)	≥ 500 h	ASTM D 5397; Appendix
Oxidative Induction Time (OIT)	≥ 100 min	ASTM D 3895 (200°C; Pure O ₂ ; 1 atm)
Low Temperature Brittleness	- 77 °C	ASTM D 746
UV Resistance (d)	≥ 50 %	GRI-GM 11
HP-OIT retained after 1,600 hours (e)		ASTM D 5885
Surface	Double-sided smooth	-

NOTES:

(*): All values - unless otherwise noted - are nominal values. Values in brackets are minimum values within the 95% confidence interval.

(a): Minimum Average Thickness: Nominal - 5%; lowest individual ± 10% related to the actual average thickness.

(b): Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be category 1 or 2. No more than 1 view from category 3.

(c): Standard test conditions: 190°C / 5.0 kg.

(d): Test-Conditions: 20 hours UV cycle at 75°C followed by 4 hours condensation at 60°C; total: 1,600 hours.

(e): UV Resistance is based on percent retained value regardless of the original High Pressure - OIT value.

(f): Roll widths and lengths have a tolerance of ± 1%.

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