

คุณสมบัติทางกายภาพและทางกลของท่อเอชดีพีอี “ท่อน้ำไทย”

(PHYSICAL & MECHANICAL PROPERTIES OF “THAI PIPE” HDPE PIPE)

ITEM PROPERTIES	UNIT	TEST METHOD	CHARACTERISTIC VALUE
DENSITY	gm/cm ³	ASTM D1505	0.95 ~ 0.96
MELT FLOW INDEX @ 5kg, 190° C	gm/10min	ASTM D1238	0.3 ~ 0.7
CARBON BLACK CONTENT	%	BS 2782 METHOD 452 B	≥ 2
TENSILE STRENGTH AT YIELD	kgf/cm ²	ASTM D638	> 200
ELONGATION AT BREAK	%	ASTM D638	> 600
HARDNESS	SHORE D	ASTM D2240	60 ~ 65
LINEAR COEFFICIENT OF THERMAL EXPANSION	K ⁻¹	ASTM D696	≈ 2x10 ⁻⁴
THERMAL CONDUCTIVITY	WK ⁻¹ m ⁻¹	DIN 52612 PART 1	≈ 0.4
FLEXURAL MODULUS	MPa	ASTM D790M	≈ 800
ELECTRIC SURFACE RESISTANCE	Ω	DIN 53482	> 10 ¹²

