

**HIGH DENSITY POLYETHYLENE (HDPE) 300**

PHYSICAL	UNIT	TEST METHOD	RESULT
SPECIFIC GRAVITY	g/cm ³	DIN EN ISO 1183	0.96
WATER ABSORPTION TILL SATURATION 23 °C	%		
MAXIMUM SERVICE TEMP. UPPER TEMP LIMIT – SHORT TERM	°C		80
MAXIMUM SERVICE TEMP. UPPER TEMP LIMIT – LONG TERM	°C		
LOWER TEMP LIMIT	°C		-50
MECHANICAL	UNIT	TEST METHOD	RESULT
TENSILE STRENGTH	MPa	DIN EN ISO 527	23
ELONGATION AT YIELD	%	DIN EN ISO 527	9
TENSILE STRENGTH AT BREAK	MPa		
UNNOTCHED IMPACT STRENGTH	Kj/m ²	DIN EN ISO 179	NO BREAK
NOTCH IMPACT STRENGTH	Kj/m ²	DIN EN ISO 179	16
BALL INDENTATION / ROCKWELL HARDNESS	MPa	DIN EN ISO 2039-1	43
SHORE – D		DIN EN ISO 868	65
FLEXURAL MODULUS OF ELASTICITY	Kj/m ²		
TENSILE MODULUS OF ELASTICITY	Kj/m ²	DIN EN ISO 527	1100
THERMAL	UNIT	TEST METHOD	RESULT
VICAT-SOFTENING POINT VST/B/50	°C		
HEAT DEFLECTING TEMPERATURE HDT/B	°C		
COEFFICIENT OF LINEAR THERMAL EXPANSION 23°C - 100°C	mm/m x °C	ISO 11359-2	1.8 x 10 ⁻⁴
THERMAL CONDUCTIVITY AT 23°C	W/Mk	Din 52612	0.38
ELECTRICAL	UNIT	TEST METHOD	RESULT
VOLUME RESISTIVITY	Ω x m		
SURFACE RESISTIVITY	Ω	DIN IEC 60093	≥10 ¹⁴
DIELECTRIC CONSTANT AT 1MHz			
DIELECTRIC LOSS FACTOR AT 1MHz			
DIELECTRIC STRENGTH	kV/mm	DIN IEC 60243-1	47
COMPARATIVE TRACKING INDEX (CTI)			
ADDITIONAL DATA	UNIT	TEST METHOD	RESULT
BONDABILITY			
FOOD COMPLIANCE - FDA		FDA	NO
FOOD COMPLIANCE - EU		EU	YES
FLAMMABILITY	UNIT	TEST METHOD	RESULT
FIRE PERFORMANCE		DIN 4102	B2

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