

PROPERTIES

HIGH DENSITY POLYETHYLENE (HDPE)

PROPERTIES	TEST METHOD	VALUE
Molecular Weight (1E6 g/cm ³)	ASTM D6474	0.5/1
Density (g/cm ³)	ISO1183	0.95/0.98
Friction coefficient (μ)	ISO8295	>0.2
Hardness Shore D (Kg/m ³)	ISO868	63/70
Elongation and rupture (%)	ISO527	>200
Tension (N/mm ²)	ASTM D638	>15
Water Absorption (%)	ASTM D570	<0.1
Surface Resistance (Ohm)	ICE 93	1014
Vicat Softening Temperature (°C)	ISO 306	127
Melting Temperature (°C)	ISO 11357-1,3	130-140
Light fastness (1-8)	DIN 53387	8
Temperature fastness (°C)	DIN 53772	300
Weather fastness (1-7)	DIN 53231	5
Compliance with flame retardants test requirements	DIN EN ISO 17881-1/-2	OK
Compliance with Toys production norms	EN 71.3	OK
Compliance with polycyclic aromatic hydrocarbons (PAH) test requirements	AfPS GS 2019:01 PAK	OK

Note: The data in this table is for informational purposes only, Playcom Supplies Ltd reserves the right to change this data at any time.