

Guangzhou Ning E-Plastics company



300 (PE-HD)

Density 0,95 g/cm³

Colour White / black / red / yellow / brown / green

Chemical Designation PE-HD (Polyethylene)

<u>PROPERTIES</u>	<u>RESULT</u>	<u>UNIT</u>	<u>PARAMETER</u>	<u>NORM USED</u>
<u>Mechanical properties</u>				
Modulus of elasticity	1000	MPa	In tension	DIN EN ISO 527-2
Modulus of elasticity	1000 – 1400	MPa	In flexure	DIN EN ISO 527-2
Tensile strength at yield	25	MPa	50 mm/min	DIN EN ISO 527-2
Impact strength (Charpy)	140	Kj/m ²	Max. 7,5j	DIN EN ISO 179-1EU
Notched Impact stren. (Charpy)	No break	Kj/m ²	Max. 7,5j	DIN EN ISO 179-1EU
Ball indentation hardness	50	MPa		ISO 2039-1
Creep rupture strength	12,50	MPa	After 1000 hours static load	
Time yield limit	3	MPa	1% elong. after 1000 hours	
Coefficient of friction	0,29	-----	Against steel p=0,05 N/mm ²	
<u>Thermal properties</u>				
Glass transition temperature	-95	°C		DIN 53765
Crystalline melting point	130	°C		DIN 53765
Service temperature	90	°C	Short term	
Service temperature	80	°C	Long term	
Thermal expansion	13 – 15	10 ⁻⁵ K ⁻¹		DIN 53483
Specific heat	1,70 – 2,00	J/(g·K)		ISO 22007-4:2008
Thermal conductivity	0,35 – 0,43	W/(K·m)		ISO 22007-4:2008
Heat distorsion temperature	42 – 49	°C	Method A	R75
Heat distorsion temperature	70 – 85	°C	Method B	R75
<u>Electrical properties</u>				
Surface resistance	10 ¹³ min	. Ω		DIN IEC 60093
Specific volume resistance	10 ¹⁵ min.	Ω*cm		DIN IEC 60093
Tracking resistance	KA 3c			DIN 53480
Dielectric constant	2,40		At 10 ⁵ Hz.	DIN 53483
Dielectric loss factor	00002		At 10 ⁵ Hz.	DIN 53483
Dielectric strength	50 min.	kV/mm	1 mm.	ASTM 149
<u>Miscellaneous properties</u>				
Water absorption	0,01 / 0,02	%	24h / 96h (23oC)	DIN EN ISO 62
Resistance to hot water / bases	Resistant			
Resistance to weathering	Resistant in colour			
Flammability (UL94)	HB		According to	DIN IEC 60995-11-10

MAIN CHARACTERISTICS

Very low water absorption
 Resistant to dilute acids, solvents and cleaning agents
 UV resistant (for at least 5 years)
 Good electrical insulation
 Easily weldable

INDUSTRY APPLICATIONS

Food processing industry
 Chemical machines
 Low load rollers

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