

Formosa Plastics

HDPE

9001

Product information

Manufacturer	Formosa Plastics Corporation
Color	NC
Material Shape	Pellets
Process	Extrusion molding
Polymer	Copolymer
Molecular Weight	High Molecular Weight
Material Attribute	Food Contact grade C4
Features	Bimodal Molecular Weight DistributionWide molecular weight distributionHigh strengthHigh toughnessGood Processing StabilityEthylene-butene copolymer
Application	Sewage pipeFreshness protection packageShopping bagTrash bag

Hardness	Condition	Standard	Value	Unit
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Shore	Hardness D	ASTM D2240	65	
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Mechanical behavior	Condition	Standard	Value	Unit
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Elongation	Break	ASTM D638	800	%
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Izod	Notch Impact	ASTM D256	22	kg-cm/cm
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Tensile	Strength Yield	ASTM D638	260	kg/cm ²
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Tensile	Strength Break	ASTM D638	380	kg/cm ²
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Tensile	Impact Strength	ASTM D1822	800	kg.cm/cm ²
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Physical property	Condition	Standard	Value	Unit
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Density		ASTM D1505	0.950	g/cm ³
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Environmental	Stress Crack Resistance	ASTM D1693	1000	hr
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Melt	Index 2.16kg	ASTM D1238	0.05	g/10min
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Thermal	Condition	Standard	Value	Unit
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Low	Temperature Brittleness	ASTM D746	-70.0	°C
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Melting	Temperature DSC	INTERNAL METHOD	130	°C
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Softening	Point	ASTM D1525	123	°C
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