

# TIPELIN® BS 501-17

High Density Polyethylene  
MOL Petrochemicals Co. Ltd.

Message:

TIPELIN BS 501-17 is a high density polyethylene copolymer (with hexene-1 as comonomer) grade for blow moulding of products which require excellent ESCR and chemical resistance, furthermore balanced mechanical properties. The grade contains antioxidants.

Applications

TIPELIN BS 501-17 is recommended for bottles and cans up to 10 litre capacity for aggressive household chemicals and detergents. It is suitable for corrugated pipes too.

TIPELIN BS 501-17 is suitable for food contact, for manufacturing of pharmaceutical packing products and toys. The product complies with Food Contact, Pharmaceutical and Toy Safety Regulations.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Detergent Resistant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	Recyclable Material		
Uses	Blow Molding Applications		
	Bottles		
	Corrugated Pipe		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.20	g/10 min	
190°C/21.6 kg	23	g/10 min	
190°C/5.0 kg	0.94	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	160	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	27.0	MPa	
Break	35.0	MPa	

Tensile Strain (Break)	1100	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	15	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ISO 306/A120
Oxidation Induction Time (200°C)	7.0	min	EN 728
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 165	°C	

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#### Recommended distributors for this material

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