

# TIPELIN® 6000B

High Density Polyethylene  
MOL Petrochemicals Co. Ltd.

Message:

TIPELIN 6000B is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for blow moulding of products with high stiffness and very good environmental stress crack resistance (ESCR) The grade contains antioxidant and acid scavenger.

Applications

TIPELIN 6000B is recommended for thin walled, small bottles up to 5 litre capacity for consumer goods such as cosmetics, daily care etc. and for blow moulded products for packaging of aggressive industrial chemicals bounded to UN certificates. It is suitable for corrugated pipes too.

TIPELIN 6000B 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	Acid Neutralizer		
	Antioxidant		
Features	Antioxidant		
	Bimodal Molecular Weight Distribution		
	Butene Comonomer		
	Detergent Resistant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Stiffness		
	Recyclable Material		
Uses	Blow Molding Applications		
	Bottles		
	Consumer Applications		
	Containers		
	Corrugated Pipe		
	Cosmetic Packaging		
	Pharmaceutical Packaging		
Agency Ratings	EP Monograph 3.1.5		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	

190°C/21.6 kg	30	g/10 min	
190°C/5.0 kg	1.3	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	200	hr	ASTM D1693B
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Shore Hardness (Shore D)	65		ISO 868
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	11	%	
Break	1400	%	
Flexural Modulus	1700	MPa	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact Strength (23°C)	9.0	kJ/m <sup>2</sup>	ISO 180/A
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	127	°C	ISO 306/A120
Oxidation Induction Time (200°C)	30	min	EN 728
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	150 to 165	°C	

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