

TIPELIN® BS 520-14

High Density Polyethylene
MOL Petrochemicals Co. Ltd.

Message:

HDPE for blow moulding
TIPELIN BS 520-14 is a high density polyethylene copolymer (with hexen-1 as comonomer) grade for blow moulding of products, which require very high ESCR and chemical resistance. The grade contains antioxidants and acid scavenger.

Applications
TIPELIN BS 520-14 is recommended for hollowed products of maximum 220 litres capacity for aggressive industrial chemicals and surface active substances, thermoforming of extruded sheets.
TIPELIN BS 520-14 is suitable for food contact. The product complies with Food Contact Regulations.

General Information			
Additive	Acid Neutralizer		
	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Hexene Comonomer		
	High Density		
	High ESCR (Stress Crack Resist.)		
	Recyclable Material		
Uses	Blow Molding Applications		
	Industrial Containers		
Forms	Pellets		
Processing Method	Blow Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.952	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.10	g/10 min	
190°C/21.6 kg	10	g/10 min	
190°C/5.0 kg	0.45	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	630	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1500	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
Yield	27.0	MPa	
Break	37.0	MPa	
Tensile Elongation (Break)	1400	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	28	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ISO 306/A120
Oxidation Induction Time (200°C)	90	min	EN 728
Blow Molding Temperature	190 to 220	°C	

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