

# TOTAL Polyethylene HDPE B 5845

High Density Polyethylene  
TOTAL Refining & Chemicals

Message:

High Density Polyethylene B5845: Excellent stress cracking resistance, high stiffness  
Applications: Suitable for lightweighting, bleach and detergents, industrial chemicals, industrial parts, suitable for food packaging

General Information			
Features	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Bimodal molecular weight distribution		
Uses	Blow molding applications		
	Industrial components		
	Industrial container		
	Food packaging		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal	> 300	hr	ASTM D1693B
100% Igepal	> 800	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	31.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	200	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant	1140	MPa	ASTM D790
2% secant	931	MPa	ASTM D790
Additional Information	Nominal Value	Unit	
Blow Molding Temperature	182 - 204	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 216	°C	
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		

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Recommended distributors for this material

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