

SIBUR

Technical Data Sheet PE HD03580 SB High-Density Polyethylene

PRODUCT DESCRIPTION

PE HD03580 SB is a high density hexene copolymer with a bimodal structure providing an outstanding balance of environmental stress crack resistance (ESCR) and stiffness, high rigidity, easy processing and high impact strength. This grade usually allows significant down gauging and is particularly well suited for chemical and detergent market, where a good environmental ESCR is required.

TYPICAL APPLICATIONS

PE HD03580 SB is recommended for Blow Molded containers of up to 30 liters for packaging chemicals, household goods, oil, cosmetics and pharmaceuticals.

Properties	Conditions	Method	Typical values*	Units
Rheology				
Melt Flow Rate	190 °C/2.16 kg	ISO 1133-1	0.30	g/10 min
Physical				
Density		ISO 1183	0.958	g/cm ³
Mechanical				
Tensile Stress at Yield		ISO 527-1	30	MPa
Tensile Strength at Break		ISO 527-1	30	MPa
Elongation at Break		ISO 527-1	550	%
Flexural Modulus		ISO 178	1350	MPa
Charpy Notched Impact Strength	23 °C	ISO 179	12	kJ/m ²
Notched Izod Impact Strength	23 °C	ASTM D256	40	kJ/m ²
BTT Stress Crack Resistance	F50, 100 %	ASTM D1693	200	hours
Thermal				
Vicat Softening Temperature	10 N	ISO 306	129	°C

*The values given are typical values measured on the product. These values should not be considered as specification.

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