

SABIC® HDPE A4046

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE A4046 is a medium density HDPE and is typically used for the production of PE-Xb compounds. The additive package has been optimized for the silane grafting process. The typical application of these is the manufacture of PEX pipes for hot and cold water and central heating. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	Unspecified Additive		
Features	Medium Density		
Uses	Piping		
Processing Method	Extrusion		
	Pipe Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	800	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	22.0	MPa	
Break, 2.00 mm, Compression Molded	31.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	73.0	°C	ISO 75-2/B
Vicat Softening Temperature	121	°C	ISO 306/A
Melting Temperature (DSC)	130	°C	DIN 53765
Enthalpy Change	186	J/g	DIN 53765

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Recommended distributors for this material

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