

Braskem PE HDP3049

High Density Polyethylene

Braskem IDESA

Message:

HDP3049 is a natural bimodal high density polyethylene copolymer designed for extrusion of potable water, natural gas, industrial and mining pipe.

Applications:

PE100 Potable water, natural gas, Industrial and Mining Pipe.

Process:

Pipe Extrusion.

General Information			
Features	Copolymer		
	Bimodal molecular weight distribution		
Uses	Piping system		
Processing Method	Pipeline extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	8.5	g/10 min	ASTM D1238
190°C/5.0 kg	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	> 5000	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.1	MPa	ASTM D638
Fracture	30.3	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus - 2% Secant	900	MPa	ASTM D790
Fundamentals of Hydrostatic Design			ASTM D2837
23°C	11.0	MPa	ASTM D2837
60°C	6.90	MPa	ASTM D2837
Oxygen sensing time (210°C)	> 20	min	ASTM D3895
Minimum Required Strength	10.0	MPa	ISO 9080
PENT	> 10000	hr	ASTM F1473
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	63.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525

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