

Braskem PE HF3712

Linear Low Density Polyethylene

Braskem

Message:

The HF3712 resin is a Linear Low Density Polyethylene (1) , produced through slurry loop process and indicated for the production of geomembranes. It shows excellent resistance to environmental stress cracking (ESCR), good processability and melt strength.

Additive:

Lubricant - Antioxidant.

Application:

Geomembranes.

Recommended Processing Conditions:

The HF3712 resin should be processed on specific extruders. The optimum processing conditions will vary according to the type of equipment used, but the best results are obtained at a melt temperature within the range of 175 to 195°C.

General Information			
Additive	Antioxidation Lubricant		
Features	Low density High ESCR (Stress Cracking Resistance) Antioxidation Workability, good Good melt strength Lubrication		
Uses	Geo Membranes		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.937	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	11	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
-- ¹	> 900	hr	ASTM D5397
2.00mm, 10% Igepal, molded, F50	> 1500	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	56		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 2.00mm, molded	19.0	MPa	ASTM D638
Fracture, 2.00mm, molded	28.0	MPa	ASTM D638
Tensile Elongation			ASTM D638

Yield, 2.00mm, molded	12	%	ASTM D638
Fracture, 2.00mm, molded	1300	%	ASTM D638
Flexural Modulus - 1% Secant (2.00 mm, Compression Molded)	682	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	740	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	54.0	°C	ASTM D648
Vicat Softening Temperature	62.0	°C	ASTM D1525 ²
Extrusion instructions			
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NOTE			
1.	SP-NCTL		
2.	载荷2 (50N)		

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