

Hifax CA 721 GW

Polypropylene
LyondellBasell Industries

Message:

Hifax CA 721 GW is a flexible polypropylene resin specifically developed for use by our customers in waterproofing applications. It is manufactured using the LyondellBasell's proprietary Catalloy process technology.

Hifax CA 721 GW membranes can be produced on slot die extruders, circular die (Blown film) extruders and on most of the calendering units (as used for PVC). Membranes can be reinforced and textured when required.

Hifax CA 721 GW is available in natural pellet form, pre-stabilised for long term exposure to elevated temperature and UV light.

Typical applications where our customers have specified Hifax CA 721 GW include drinking water containment and conveyance, fish pond liners, snow lagoons, tunnel linings, reservoir liners and floating covers, food related lining and UV exposed potable water applications.

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good Chemical Resistance		
	Good Flexibility		
	Good Heat Seal		
	Good UV Resistance		
	Heat Sealable		
	Heat Stabilized		
	High ESCR (Stress Crack Resist.)		
	Low Temperature Impact Resistance		
	Ozone Resistant		
	Puncture Resistant		
Uses	Containers		
	Geo Membranes		
	Liners		
	Piping		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blown Film		
	Calendering		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60	g/10 min	ISO 1133

Environmental Stress-Cracking Resistance (70°C)	> 1000	hr	ASTM D5397
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	30		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C, 1.00 mm)	5.00	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C, 1.00 mm)	> 800	%	ISO 527-2/50
Flexural Modulus	80.0	MPa	ISO 178
Tear Resistance (1.00 mm)	80.0	kN/m	ASTM D1004
Critical Cone Height ¹ (1.00 mm)	> 100	mm	Internal Method
Multi-axial Burst Stress (1.00 mm)	> 150	%	ASTM D5617
Ozone Resistance	No Crack		ASTM D2137
Resistance to Microorganisms	Not Sensitive		DIN 53739
Resistance to Root Penetration ²	Resistant		
Xenon Weatherometer ³ (1.00 mm)	> 1	yr	DIN 53387
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (0°C)	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Ductile / Brittle Transition Temperature	-55.0	°C	Internal Method
Vicat Softening Temperature	56.0	°C	ISO 306/A50
Melting Temperature	140 to 150	°C	ISO 11357-3
NOTE			
1.	GR1/GM3		
2.	FLL Test		
3.	1AX, 1 mm black/white sheets		

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