



## Hifax CA 721 GW

### Advanced Polyolefin

#### Product Description

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.

For regulatory compliance information see Hifax CA 721 GW Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS), which can be found on [www.polymers.lyondellbasell.com](http://www.polymers.lyondellbasell.com).

#### Product Characteristics

**Status** Commercial: Active

**Test Method used** ISO

**Availability** Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America

**Processing Methods** Extrusion Flat-die, Blown Film, Calendering

**Features** Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, Good Heat Seal, Heat Sealable, Low Temperature Impact Resistance, Ozone Resistant, Good Puncture Resistance, Non Toxic

**Typical Customer Applications** Soil & Waste Pipe, Water management membranes

Typical Properties	Method	Value	Unit
This is a colour variant please see description for further information on where to obtain technical property details.			
<b>Physical</b>			
Density (Method A)	ISO 1183	0.88	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.6	g/10 min
<b>Mechanical</b>			
Tensile Stress at Yield (1 mm, 23 °C, 50 mm/min)	ISO 527-1, 5	-2	MPa
Tensile Strain at Break (1 mm, 23 °C, 50 mm/min)	ISO 527-1, -2	> 800	%
Flexural modulus	ISO 178	80	MPa
<b>Impact</b>			
Notched izod impact strength (0, Type 1, Notch A)	ISO 180	No Break	
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	30	
<b>Thermal</b>			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	56	

#### Additional Properties

Melting Temperature, ISO 11357-3: 140 to 150°C  
 Tear Resistance, ASTM D1004 C, 1 mm sheet: 80 N/mm  
 Multi-axial Burst Stress, ASTM D5617, 1 mm sheet: >150%  
 Critical Cone Height, GR1/GM3, 1 mm sheet: >100 mm  
 Environmental Stress Cracking, ASTM D5397, 70°C: >1000 hr  
 Xenon Arc Weathering, DIN 53387 1AX, 1 mm black/white sheets: >10000 hr  
 Ozone Resistance, ASTM D2137: No Crack  
 Resistance to Microorganisms, DIN 53739: Not Sensitive  
 Resistance to Root Penetration, FLL Test: Resistant  
 Ductile/Fragile transition temperature, Internal test method, -55°C

#### Notes

Typical properties; not to be construed as specifications.

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LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP  
Basell Sales & Marketing Company B.V.  
Basell Asia Pacific Limited  
Basell International Trading FZE  
LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyb.com/>.

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This product(s) may not be used in:

- (i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or
- (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.
- (iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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