



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.

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.			
Physical			
Density (Method A)	ISO 1183	0.88	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.6	g/10 min
Mechanical			
Tensile Stress at Yield (1 mm, 23 °C, 50 mm/min)	ISO 527-1, -2	5	MPa
Tensile Strain at Break (1 mm, 23 °C, 50 mm/min)	ISO 527-1, -2	> 800	%
Flexural modulus	ISO 178	80	MPa
Impact			
Notched izod impact strength (0, Type 1, Notch A)	ISO 180	No Break	
Hardness			
Shore hardness (Shore D)	ISO 868	30	
Thermal			
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