

Technical Data Sheet

Hifax CA 138 A



Catalloy

Product Description

Hifax CA 138 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary *Catalloy* process technology. This grade is suitable for use in compounds as impact modifier, to give excellent processability whilst maintaining optimum mechanical properties. The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see Hifax CA 138 A [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Automotive Flooring; Exterior Automotive Applications; Impact Modification; Interior Automotive Applications; Polymer Modifier; Soft Profile & Sheets; Soft Touch Applications
Market	Automotive; Compounding; Consumer Products
Processing Method	Compounding; Extrusion Flat-die; Injection Molding; Sheet
Attribute	Good Moldability; Good Processability; High Impact Resistance; Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2.8	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	500	MPa	ISO 178
Tensile Stress at Break	10	MPa	ISO 527-1, -2
Tensile Stress at Yield	17	MPa	ISO 527-1, -2
Tensile Strain at Break	400	%	ISO 527-1, -2
Tensile Strain at Yield	12	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	70	kJ/m ²	ISO 179
Note: Failure Mode - Partial Break			
(-20 °C)	100	kJ/m ²	ISO 179
Note: Failure Mode - Partial Break			
(-40 °C)	50	kJ/m ²	ISO 179
Note: Failure Mode - Partial Break			
Hardness			
Shore Hardness, (Shore D, 15 sec)	41		ISO 868

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Thermal		
Vicat Softening Point	90 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	58 °C	ISO 75B-1, -2
DSC Melting Point	163 °C	ISO 11357-3
Optical		
Gloss, (60°, 45 mil)	20	ASTM D2457

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) 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;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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