

Hifax CA 387 A

Advanced Polyolefin

Product Description

Hifax CA 387 A is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary *Catalloy* process technology.

It has high melt flow and an excellent balance of impact, stiffness, processability and paintability.

Hifax CA 387 A is primarily used for painted automotive bumper fascias that require high durability, and for other injection molded parts with paintable and weatherable requirements. It is also utilized as a component in compounded materials for a wide range of industrial applications. The grade is available in natural pellet form.

For regulatory compliance information see *Hifax* CA387 Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Processing Methods	Extrusion Compounding, Injection Molding
Features	Good Colorability, Durable, High Flow , High Impact Resistance , Good Moldability , Paintable, Good Stiffness
Typical Customer Applications	Bumpers, Exterior Applications, Polymer modifier

Typical Properties	Method	Value	Unit
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Physical

Density (Method A)	ISO 1183	0.90	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	18.5	g/10 min

Note: Alternative test method is ASTM D 1238

Mechanical

Tensile Stress at Yield	ISO 527-1, -2	18	MPa
Tensile Strain at Break	ISO 527-1, -2	75	%
Tensile Strain at Yield	ISO 527-1, -2	7.5	%
Flexural modulus (23°C, 2mm/min, Chord)	ISO 178	1000	

Impact

Notched izod impact strength (23 °C)	ISO 180	47	kJ/m ²
Note: Failure Mode: Partial (-40 °C)		7	kJ/m ²
Note: Failure Mode: Complete			

Multiaxial Impact Strength (Energy@ Max Load +23 °C, 2.2m/s, 3.2mm plq; Failure Mode: Ductile)	ASTM D3763	17	J
(Energy@ Max Load -40 °C, 2.2m/s, 3.2mm plq; Failure Mode: Ductile)		27	J

Hardness

Shore hardness (Shore D)	ISO 868	63	
Note: 15 seconds			

Thermal



Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	74	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	47	°C

Additional Information

Mold shrinkage	ISO 294-4
Note: Please contact Equistar for shrinkage recommendations	

Additional Properties

AUTOMOTIVE SPECIFICATIONS:
Chrysler MS-DC256A CPN 3403
Chrysler MS-DC256A CPN 4131
Chrysler MS-DC265B CPN 4712
Chrysler MS-DC265B CPN 4720
Ford WSS M4D952-A3
GM GMP.E/P.099

Notes

Typical properties; not to be construed as specifications.

