



# Hifax CA 387 A

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

## General Information

### 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.

### General

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>		
Availability	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>		
Features	<ul style="list-style-type: none"> <li>Durable</li> <li>Good Colorability</li> <li>Good Impact Resistance</li> <li>Good Moldability</li> </ul>	<ul style="list-style-type: none"> <li>Good Processability</li> <li>Good Stiffness</li> <li>Good Weather Resistance</li> <li>High Flow</li> </ul>	<ul style="list-style-type: none"> <li>High Impact Resistance</li> <li>Paintable</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Automotive Bumper</li> <li>Automotive Exterior Parts</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Interior Parts</li> <li>Caps</li> <li>Closures</li> </ul>	<ul style="list-style-type: none"> <li>Compounding</li> <li>Fascias</li> <li>Plastics Modification</li> </ul>
Automotive Specifications	<ul style="list-style-type: none"> <li>CHRYSLER MS-DC-256 Type A CPN3403</li> <li>CHRYSLER MS-DC-256 Type A CPN4131</li> <li>CHRYSLER MS-DC-256 Type A CPN4131</li> <li>CHRYSLER MS-DC-256 Type B CPN4712</li> </ul>	<ul style="list-style-type: none"> <li>CHRYSLER MS-DC-256 Type B CPN4720</li> <li>FORD WSS-M4D952-A3</li> <li>FORD WSS-M4D952-A3</li> <li>GM GMP.E/P.099</li> </ul>	<ul style="list-style-type: none"> <li>GM GMP.E/P.099</li> <li>IMDS ID 27791295</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>		
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Compounding</li> <li>Injection Molding</li> </ul>		

## ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	2610	psi	ISO 527-2
Tensile Stress (Break)	1890	psi	ISO 527-2
Tensile Strain (Yield)	8.0	%	ISO 527-2
Tensile Strain (Break)	110	%	ISO 527-2
Flexural Modulus	145000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	1.2	ft·lb/in <sup>2</sup>	
-4°F, Complete Break	4.1	ft·lb/in <sup>2</sup>	
73°F, Partial Break	29	ft·lb/in <sup>2</sup>	
Instrumented Dart Impact <sup>2</sup>			ASTM D3763
-40°F, 0.126 in, Ductile Failure	239	in·lb	
73°F, 0.126 in, Ductile Failure	150	in·lb	

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## LyondellBasell Industries - Polyolefin

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	52		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	176	°F	ISO 75-2/B
Vicat Softening Temperature	248	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	77		ASTM D2457

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 7.22 ft/sec