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	• Commercial: Active		
Availability	• Latin America	• North America	
Features	• Durable • Good Colorability • Good Impact Resistance • Good Moldability	• Good Processability • Good Stiffness • Good Weather Resistance • High Flow	• High Impact Resistance • Paintable
Uses	• Automotive Applications • Automotive Bumper • Automotive Exterior Parts	• Automotive Interior Parts • Caps • Closures	• Compounding • Fascias • Plastics Modification
Automotive Specifications	• CHRYSLER MS-DC-256 Type A CPN3403 • CHRYSLER MS-DC-256 Type A CPN4131 • CHRYSLER MS-DC-256 Type A CPN4131 • CHRYSLER MS-DC-256 Type B CPN4712	• CHRYSLER MS-DC-256 Type B CPN4720 • FORD WSS-M4D952-A3 • FORD WSS-M4D952-A3 • GM GMP.E/P.099	• GM GMP.E/P.099 • IMDS ID 27791295
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Compounding	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm³	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/in²	
-4°F, Complete Break	4.1	ft·lb/in²	
73°F, Partial Break	29	ft·lb/in²	
Instrumented Dart Impact [2]			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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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

[1] Typical properties: these are not to be construed as specifications.

[2] 7.22 ft/sec