



Hifax CA 138 A

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

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.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Good Moldability • Good Processability	• High Impact Resistance • Impact Modified	• Low Temperature Impact Resistance • Soft
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Interior Parts	• Compounding • Consumer Applications • Plastics Modification	• Profiles • Sheet
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Compounding	• Extrusion	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.880	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.8	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	2470	psi	ISO 527-2
Tensile Stress (Break)	1450	psi	ISO 527-2
Tensile Strain (Yield)	12	%	ISO 527-2
Tensile Strain (Break)	400	%	ISO 527-2
Flexural Modulus	72500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Partial Break	24	ft-lb/in ²	
-4°F, Partial Break	48	ft-lb/in ²	
73°F, Partial Break	33	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	41		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	136	°F	ISO 75-2/B
Vicat Softening Temperature	194	°F	ISO 306
Melting Temperature	325	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	20		ASTM D2457

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Notes

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