

# Hifax CB 40 A

Polypropylene Impact Copolymer

LyondellBasell Industries

## Message:

"Hifax" CB 40 A is a medium flow, 10% mineral filled high impact polypropylene copolymer suitable for injection moulding. The grade has been specifically designed for moulding large complex parts that require high impact strength as well as good stiffness. It features excellent paint adhesion and low thermal expansion.

This grade is available in custom colour, pellet form.

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
Features	Rigid, good		
	Impact copolymer		
	Impact resistance, high		
	Medium liquidity		
Uses	Car anti-collision bar		
	Application in Automobile Field		
	Automotive exterior parts		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	15.0	MPa	ISO 527-2
Tensile Strain (Break)	120	%	ISO 527-2
Flexural Modulus	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-40°C	6.9	kJ/m <sup>2</sup>	ISO 180/1A
-20°C	9.3	kJ/m <sup>2</sup>	ISO 180/1A
23°C	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	°C	ISO 75-2/A
Vicat Softening Temperature	40.0	°C	ISO 306/B50
Additional Information			
CLTE, Basell Test Method: 13.1e-5 1/K			

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