

Hifax CB251

Thermoplastic Polyolefin Elastomer

LyondellBasell Industries

Message:

Hifax CB251 medium melt flow, 1,200 MPa flexural modulus, low CLTE, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has an excellent balance of impact resistance, stiffness and dimensional stability. It was designed primarily for rigid automotive exterior ornamentation applications requiring low thermal expansion characteristics.

General Information			
Filler / Reinforcement	Mineral		
Features	Good Dimensional Stability		
	Good Impact Resistance		
	Good Stiffness		
	Low Shrinkage		
	Medium Flow		
	Paintable		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	15.0	MPa	ISO 527-2
Tensile Strain (Yield)	12	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°C	4.0	kJ/m ²	
23°C	48	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	82.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	47.0	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	4.5E-5	cm/cm/°C	ASTM E228, ISO 11359-2

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