

## Technical Data Sheet



### PE15CB-HD10-4325

High Density Polyethylene Filled with Calcium Carbonate

## Nirumand Polymer

Nirumand Polymer Co.  
Filled & Reinforced Engineering Plastics

#### Product Description

PE15CB-HD10-4325 is high density polyethylene filled with 15% calcium carbonate powder offering good balance of mechanical properties and dimensional stability, stiffness, good thermal and chemical resistance. This grade is designed to be processed in conventional thermoforming process.

#### General Properties

Material Status	•Commercial: Active
Forms	•Pellets
Processing Method	•Thermoforming
Color	•Black

Physical Properties	Value	Unit	Test Method
Density	1.06	gr/cm <sup>3</sup>	ISO 1183
Melt Mass-flow Rate (MFR) (190°C/2.16 kg)	≤ 0.5	gr/10 min	ASTM D1238
Shrinkage	3-5	%	Internal

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	21	MPa	ISO 527
Tensile Strength@Break	12	MPa	ISO 527
Elongation@Break	26	%	ISO 527
Elongation@yield	13	%	ISO 527
Flexural Modulus	1000	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	21	kJ/m <sup>2</sup>	ISO 180
Notched charpy Impact (23°C)	...	kJ/m <sup>2</sup>	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	60	Shore D	ASTM D2240

◆ Values shown are average & are not to be considered as product specifications.

Web-site: [www.npolymer.com](http://www.npolymer.com)

E-mail: [Sales@npolymer.com](mailto:Sales@npolymer.com), [Trade@npolymer.com](mailto:Trade@npolymer.com)

Address: Abbas abad Industrial Zone-Tehran-Iran

Tel & Fax: (+9821)35000234