LOTTE CHEMICAL

January, 2013

KOPELEN B-320 PP BLOCK COPOLYMER

General Information

Description

B-320 is impact block copolymer which has ethylene-propylene rubber inside homo polypropylene.

This grade can be processed by sheet extrusion. B-320 shows good impact resistance at low temperature and has also high strength.

It has good vacuum molding property, suitable for the production of vacuum molding goods. B-320 is applied to food packaging tray, various industrial sheets.

Applications

- **Plastic corrugated boards**
- **Food packaging tray**
- **Blow molding goods**

Physical Properties[1]

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	1.0	g/10min		
Density	ASTM D792	0.9	g/cm^3		
Mechanical					
Tensile Stress (Yield)	ASTM D638	290	kgf/cm^2	31	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	13,500	kgf/cm^2	1,320	MPa
Impact					
Notched Izod Impact Strength (23℃)	ASTM D256	40.0	kgf·cm/cm	490	J/m
Notched Izod Impact Strength (-10℃)	ASTM D256	4.5	kgf·cm/cm	44	J/m
Thermal					
Heat Deflection Temperature ($4.6kgf/cm^2$)	ASTM D648	110	℃		
Additional Property					
Flammability	UL94	HB			

NOTE

ISO 9001, 14001, /TS 16949

[1] Physical Properties : these are not to be construed as specifications

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Applications

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Physical Properties[1]

Physical	Test Method	Nominal Value			
Melt Flow Index	ISO 1133	1.0	g/10min		
Density	ISO 1183	0.90	g/cm^3		
Mechanical					
Tensile Stress (Yield)	ISO 527-1	290	kgf/cm^2	28	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	13,500	kgf/cm^2	1,323	MPa
Impact					
Notched Izod Impact Strength (23℃)	ISO 180	40	kgf·cm/cm	392	J/m
Notched Izod Impact Strength (-10℃)	ISO 180	-	kgf·cm/cm	-	J/m
Thermal					
Heat Deflection Temperature(4.6kgf/cm^2)	ISO 75-1	112	℃		
Vicat Softening Point	ISO 306	153	℃		
Additional Property					
Flammability	UL94	HB			

NOTE

ISO 9001, 14001, /TS 16949

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