

## SB-520

## PP RANDOM COPOLYMER

### General Information

#### Description

SB-520 is random copolymer polypropylene for extrusion and blow molding application with good transparency and good gloss for transparent bottle. This grade can be processed by extrusion, injection blow molding and sheet extrusion. SB-520 offers high clarity, flexible stiffness, high heat distortion temperature and chemical resistance. This grade is suitable for food contact.

#### Applications

- ◆ Cosmetic and detergent bottle
- ◆ Eye drop and food(syrup) bottle

### Physical Properties<sup>1</sup>

Physical	Test Method	Nominal Value			
Melt Flow Index	ASTM D1238	1.8	g/10min		
Density	ASTM D792	0.90	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ASTM D638	320	kgf/cm <sup>2</sup>	31	MPa
Tensile Strain (Break)	ASTM D638	>300	%	>300	%
Flexural Modulus	ASTM D790	13,500	kgf/cm <sup>2</sup>	1,320	MPa
<b>Impact</b>					
Notched Izod Impact Strength (23℃)	ASTM D256	5.0	kgf·cm/cm	49	J/m
<b>Thermal</b>					
Heat Deflection Temperature(4.6kgf/cm <sup>2</sup> )	ASTM D648	100	℃		
<b>Additional Property</b>					
Haze (2T)	ASTM D1004	20	%		

### NOTE

ISO 9001, 14001, ITS 16949

<sup>1</sup> Physical Properties : these are not to be construed as specifications

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#### Applications

- ◆Cosmetic and detergent bottle
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### Physical Properties<sup>1</sup>

Physical	Test Method	Nominal Value			
Melt Flow Index	ISO 1133	1.8	g/10min		
Density	ISO 1183	0.90	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ISO 527-1	300	kgf/cm <sup>2</sup>	29	MPa
Tensile Strain (Break)	ISO 527-1	>300	%	>300	%
Flexural Modulus	ISO 178	10,500	kgf/cm <sup>2</sup>	1,030	MPa
Notched Izod Impact Strength (23℃)	ISO 180	3.8	kgf·cm/cm	37	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ISO 75-1	90	℃		
<b>Additional Property</b>					
Haze	ASTM D1004	20	%		

### NOTE

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