

## SB-520Y

## PP RANDOM COPOLYMER

### General Information

#### Description

SB-520Y is random copolymer polypropylene for blow molding with good transparency and good gloss for medical bottle. This product can be processed by Injection stretch blow molding equipment for IV solution bottle. SB-520Y offers very high clarity, reasonable flexible stiffness and high heat distortion temperature result in maintaining shape and transparency after steam sterilization treatment and has passed the USP class VI tests. This grade is registered at FDA DMF (Drug Master Files) and registration number is 26629.

#### Applications

- ◆ Medical bottle
- ◆ IV solution bottle
- ◆ Contact lens rinsing solution bottle

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

Physical	Test Method	Nominal Value			
Melt Flow Index	ASTM D1238	2.4	g/10min		
Density	ASTM D792	0.90	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ASTM D638	300	kgf/cm <sup>2</sup>	29	MPa
Tensile Strain (Break)	ASTM D638	>500	%	>500	%
Flexural Modulus	ASTM D790	11,000	kgf/cm <sup>2</sup>	1,080	MPa
<b>Impact</b>					
Notched Izod Impact Strength (23℃)	ASTM D256	6.0	kgf·cm/cm	59	J/m
<b>Thermal</b>					
Heat Deflection Temperature(4.6kgf/cm <sup>2</sup> )	ASTM D648	95	℃		
<b>Additional Property</b>					
Haze	ASTM D1004	50	%		

### NOTE

ISO 9001, 14001, ITS 16949

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

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#### Applications

- ◆ Medical bottle
- ◆ IV solution bottle
- ◆ Contact lens rinsing solution bottle

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

Physical	Test Method	Nominal Value			
Melt Flow Index	ISO 1133	2.4	g/10min		
Density	ISO 1183	0.90	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ISO 527-1	290	kgf/cm <sup>2</sup>	28	MPa
Tensile Strain (Break)	ISO 527-1	>400	%	>400	%
Flexural Modulus	ISO 178	10,000	kgf/cm <sup>2</sup>	980	MPa
Notched Izod Impact Strength (23℃)	ISO 180	4.4	kgf·cm/cm	43	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ISO 75-1	82	℃		
<b>Additional Property</b>					
Haze	ASTM D1004	50	%		

### NOTE

ISO 9001, 14001, /TS 16949

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