

## RANPELEN SEP-550H

## PP RANDOM COPOLYMER

### General Information

#### Description

SEP-550H is a polypropylene random copolymer resin for expandable polypropylene (EPP) beads foam applications. This grade is designed to be processed in conventional mini pellet for wide range of EPP products. SEP-550H offers low steam pressure in the steam chest molding process and molded articles provides extremely good heat welding property, stiffness, elasticity and high impact resistance. SEP-550H is a 'Phthalate-Free' product.

#### Applications

- ◆ Foam beads for bumper cores for energy absorption
- ◆ Foam beads for protective packages for shock absorption

Physical Properties <sup>1</sup>					
Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	7.5	g/10min		
Density	ASTM D792	0.9	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ASTM D638	250	kgf/cm <sup>2</sup>	24	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	9,500	kgf/cm <sup>2</sup>	930	MPa
<b>Impact</b>					
Notched Izod Impact Strength (23℃)	ASTM D256	5.5	kgf·cm/cm	54	J/m
Notched Izod Impact Strength (-10℃)	ASTM D256	2.0	kgf·cm/cm	20	J/m
<b>Thermal</b>					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ASTM D648	95	℃		

#### NOTE

ISO 9001, 14001, /TS 16949

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

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#### Applications

- ◆ Foam beads for bumper cores for energy absorption
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Physical Properties <sup>1</sup>					
Physical	Test Method	Nominal Values			
Melt Flow Index	ISO 1133	7.5	g/10min		
Density	ISO 1183	0.9	g/cm <sup>3</sup>		
Mechanical					
Tensile Stress (Yield)	ISO 527-1	230	kgf/cm <sup>2</sup>	23	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	8,000	kgf/cm <sup>2</sup>	780	MPa
Impact					
Notched Izod Impact Strength (23℃)	ISO 180	4.5	kgf·cm/cm	44	J/m
Notched Izod Impact Strength (-10℃)	ISO 180	1.5	kgf·cm/cm	15	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> )	ISO 75-1	75	℃		

#### NOTE

ISO 9001, 14001, /TS 16949

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