

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.

Applications

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

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	7.5	g/10min		
Density	ASTM D792	0.90	g/cm ³		
Mechanical					
Tensile Stress (Yield)	ASTM D638	250	kgf/cm ²	24	MPa
Tensile Strain (Break)	ASTM D638	>100	%	>100	%
Flexural Modulus	ASTM D790	9,500	kgf/cm ²	930	MPa
Impact					
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
Thermal					
Heat Deflection Temperature (4.6kgf/cm ²)	ASTM D648	95	℃		

NOTE

ISO 9001, 14001, /TS 16949

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

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Applications

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

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ISO 1133	7.5	g/10min		
Density	ISO 1183	0.90	g/cm ³		
Mechanical					
Tensile Stress (Yield)	ISO 527-1	230	kgf/cm ²	23	MPa
Tensile Strain (Break)	ISO 527-1	>100	%	>100	%
Flexural Modulus	ISO 178	8,000	kgf/cm ²	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 ²)	ISO 75-1	75	℃		

NOTE

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