

RANPELEN J-560S

PP RANDOM COPOLYMER

General Information

Description

J-560S is a nucleated random copolymer for injection molding applications.

This grade is designed to be processed in conventional injection molding equipment and offers super excellent transparency, good stiffness/impact strength balance, high gloss, high hinge property and low smell. J-560S is a 'Phthalate-Free' product.

Applications

- ◆ Cosmetics container & cap, Food container, Transparency case, Stationery
- ◆ Disposable syringe, CD/DVD case

| Physical Properties ¹ | | | | | |
|---|-------------|----------------|---------------------|-------|-----|
| Physical | Test Method | Nominal Values | | | |
| Melt Flow Index | ASTM D1238 | 18 | g/10min | | |
| Density | ASTM D792 | 0.9 | g/cm ³ | | |
| Mechanical | | | | | |
| Tensile Stress (Yield) | ASTM D638 | 300 | kgf/cm ² | 29 | MPa |
| Tensile Strain (Break) | ASTM D638 | >100 | % | >100 | % |
| Flexural Modulus | ASTM D790 | 12,000 | kgf/cm ² | 1,180 | MPa |
| Rockwell Hardness | ASTM D785 | 95 | R | | |
| Impact | | | | | |
| Notched Izod Impact Strength (23 °C) | ASTM D256 | 5.5 | kgf·cm/cm | 54 | J/m |
| Notched Izod Impact Strength (-10 °C) | ASTM D256 | 3.0 | kgf·cm/cm | 29 | J/m |
| Thermal | | | | | |
| Heat Deflection Temperature (4.6kgf/cm ²) | ASTM D648 | 95 | °C | | |
| Additional Properties | | | | | |
| Haze | ASTM D1003 | 20 | % | | |

NOTE

ISO 9001, 14001, /TS 16949

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

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| Physical Properties ¹ | | | | | |
|---|-------------|----------------|---------------------|------|-----|
| Physical | Test Method | Nominal Values | | | |
| Melt Flow Index | ISO 1133 | 18 | g/10min | | |
| Density | ISO 1183 | 0.9 | g/cm ³ | | |
| Mechanical | | | | | |
| Tensile Stress (Yield) | ISO 527-1 | 270 | kgf/cm ² | 26 | MPa |
| Tensile Strain (Break) | ISO 527-1 | >100 | % | >100 | % |
| Flexural Modulus | ISO 178 | 9,900 | kgf/cm ² | 970 | MPa |
| | | | | | |
| Impact | | | | | |
| Notched Izod Impact Strength (23℃) | ISO 180 | 5.0 | kgf·cm/cm | 49 | J/m |
| Notched Izod Impact Strength (-10℃) | ISO 180 | 2.5 | kgf·cm/cm | 24 | J/m |
| Thermal | | | | | |
| Heat Deflection Temperature (4.6kgf/cm ²) | ISO 75-1 | 85 | ℃ | | |
| Additional Properties | | | | | |
| Haze | | 20 | % | | |

NOTE

ISO 9001, 14001, /TS 16949

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