

# K4510B

Polypropylene Random Copolymer (RCPP) / High Transparency Injection Molding

## PRODUCT DESCRIPTION

K4510B is a Polypropylene Random Copolymer (RCPP) with the characteristic of high transparency and good processibility. It is designed for injection molding processing such as household products, caps and closures.

## INDUSTRY

- Clear Food Containers
- Consumer Products
- Housewares
- Caps and Closures

## PRODUCT FEATURE

- High Transparency
- High Gloss
- Improved color shade without Optical Brightener (OB Free)

## REGULATION COMPLIANCE

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- Halal Certificate

PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Melt Flow Rate (230°C/2.16 kg)	ASTM D1238	g/10 min	10
Density (23°C)	ASTM D792	g/cm <sup>3</sup>	0.90
Mold Shrinkage	IRPC	%	1.2 - 1.7
MECHANICAL PROPERTY			
Tensile Strength at Yield (3.2 mm, 50 mm/min)	ASTM D638	MPa	31
Elongation at Yield (3.2 mm, 50 mm/min)	ASTM D638	%	13
Flexural Modulus (1% Secant, 3.2 mm, 1.3 mm/min)	ASTM D790	MPa	1,150
Izod Notched Impact Strength (3.2 mm, 23°C)	ASTM D256	J/m	70
HARDNESS PROPERTY			
Rockwell Hardness (3.2 mm)	ASTM D785	R Scale	91
THERMAL PROPERTY *Unannealed			
Heat Distortion Temperature (3.2 mm, 0.455 MPa)	ASTM D648	°C	85
OPTICAL PROPERTY			
Haze (1 mm)	ASTM D1003	%	8

Conversion (1 MPa = 10.2 kgf/cm<sup>2</sup> | 1 J/m = 0.1 kgf-cm/cm)

Remark: The values presented above are typical laboratory, not to be construed as specifications and may vary within moderate ranges. The applicability or accuracy of this information or the suitability of our products cannot be guaranteed because users' conditions of use are beyond our control.