

# SP200

Acrylonitrile Butadiene Styrene (ABS) / High Impact

## PRODUCT DESCRIPTION

SP200 is an ABS injection grade with a super high impact strength feature. It is designed for injection molding processing require high impact loading such as automotive parts, appliance & electronic parts and helmet.

## INDUSTRY

- Appliance & Electronic Parts
- Interior Parts
- Helmet

## PRODUCT FEATURE

- Super High Impact Strength
- Good Stiffness
- Glossy Finish Parts
- Able To Compound With PC

## REGULATION COMPLIANCE

- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- UL Yellow Card: E132283

PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Melt Flow Rate (220°C/10 kg)	ASTM D1238	g/10 min	18
Density (23 °C)	ASTM D792	g/cm <sup>3</sup>	1.05
Mold Shrinkage	IRPC	%	0.4 - 0.6
MECHANICAL PROPERTY			
Tensile Strength at Yield (3.2 mm, 5 mm/min)	ASTM D638	kgf/cm <sup>2</sup>	450
Elongation at Break (3.2 mm, 5 mm/min)	ASTM D638	%	20
Flexural Strength (6.4 mm, 2.5 mm/min)	ASTM D790	kgf/cm <sup>2</sup>	610
Flexural Modulus (1% Secant, 6.4 mm, 2.5 mm/min)	ASTM D790	kgf/cm <sup>2</sup>	22,000
Izod Notched Impact Strength (6.4 mm, 23°C)	ASTM D256	kgf-cm/cm	35
HARDNESS PROPERTY			
Rockwell Hardness (6.4 mm)	ASTM D785	R-Scale	108
THERMAL PROPERTY *Unannealed			
Heat Distortion Temperature (6.4 mm, 18.6 kgf/cm <sup>2</sup> )*	ASTM D648	°C	85
Flammability (E132283)	UL94	-	HB (1.5 mm)

Conversion (1 kgf/cm<sup>2</sup> = 0.098 MPa | 1 kgf-cm/cm = 9.8 J/m)

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.

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## PROCESSING TECHNIQUE

Drying Temperature	80 - 85 °C
Drying Time	2 - 4 hr
Cylinder Temperature	190 - 240 °C
Mold Temperature	50 - 80 °C
Injection Pressure	30 - 80 % of maximum pressure
Holding Pressure	Relative to injection pressure
Back Pressure	0 - 20% of maximum pressure
Injection Speed	Low to medium of maximum pressure

\*However, the actual processing conditions depend on mold design, power of machine, equipment and other environments.

## PRODUCT PACKAGING

- 25 kg loose bag
- 25 kg stretch wrap on palletized
- Jumbo bag

For further information, contact IRPC's Sales representative.

## STORAGE

The resin should be stored in a dry location with good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Resin should be protected from direct sunlight, temperatures above 38°C (100°F) and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time. The container should be kept closed to prevent contamination. For the additional recommended storage conditions, please refer to SDS.

## SAFETY

This product is not classified as hazardous material for more information please refer to safety data sheet.

## RECYCLING

It is an undisputed fact that the product can be recycled or disposed of without any problem.

### DISCLAIMER

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