



# The Polyolefin Company (Singapore) Pte. Ltd.

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Co. Reg. No.: 198001666D

## COSMOPLENE<sup>®</sup> AX161S

### CHARACTERISTICS

**COSMOPLENE AX161S** is a high impact PP copolymer manufactured by the latest gas phase process licensed from Sumitomo Chemical Co. Japan. It exhibits good impact and stiffness balance at high melt flow rate.

**COSMOPLENE AX161S** also shows excellent flowability and good surface appearance of parts after molding.

### APPLICATIONS

**COSMOPLENE AX161S** is suitable for injection molding of thin-wall containers, housewares, etc.

**AX161S** complies with U.S. FDA Regulation 21 CFR 177.1520 (C) 3.1a, as long as it is used unmodified and processed according to standard manufacturing practices in the industries.

Note: Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact article.

### PHYSICAL PROPERTIES

ITEM	UNIT	AX161S	TEST METHOD
Melt Flow Rate	g/10 min	45	ASTM D1238
Density	g/cm <sup>3</sup>	0.90	ASTM D792
Tensile Strength at Yield	MPa	27	ASTM D638
Tensile Strength at Break	MPa	18	ASTM D638
Elongation at Break	%	40	ASTM D638
Flexural Modulus	MPa	1200	ASTM D790
Izod Impact (23°C)	J/m	93	ASTM D256
(-20°C)	J/m	37	ASTM D256
Rockwell Hardness	R scale	92	ASTM D785
HDT (0.45MPa)	°C	125	ASTM D648
Shrinkage MD/TD (2mm)	%	1.5/1.7	TPC METHOD

### INJECTION

Cylinder Temp (°C) : 190 - 230

Mold Temp (°C) : 30

Clamp Pressure (Kg/cm<sup>2</sup>) : 100

Injection Pressure G (Kg/cm<sup>2</sup>) : 70

- The figures presented are typical laboratory averages, only for reference.
- The information is based on our current knowledge, is subjected to continuous updates and is intended to suggest/ recommend product applications and to provide typical data on the related properties. It should not therefore be construed as guaranteeing any specific property of the product. TPC makes no warranty of any kind, expressed or implied, regarding the accuracy of these data.



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**COSMOPLENE<sup>®</sup>**

**COSMOTHENE<sup>®</sup>**

**COSMOTHENE<sup>®</sup> EVA**

POLYPROPYLENE

LOW DENSITY POLYETHYLENE

ETHYLENE VINYL  
ACETATE COPOLYMER