

# COSMOPLENE® AX161S

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

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.

General Information			
Features	Copolymer		
	Impact resistance, high		
	Good liquidity		
	Excellent appearance		
Uses	Thin wall container		
	Household goods		
	Container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	45	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 2.00mm	1.5	%	Internal method
Transverse flow: 2.00mm	1.7	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.0	MPa	ASTM D638
Fracture	18.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	37	J/m	ASTM D256
23°C	93	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	125	°C	ASTM D648

Injection	Nominal Value	Unit
Rear Temperature	190 - 230	°C
Middle Temperature	190 - 230	°C
Front Temperature	190 - 230	°C
Mold Temperature	30	°C
Injection Pressure	6.86	MPa
Clamp Tonnage	0.98	kN/cm <sup>2</sup>

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

