

# COSMOPLENE® AV161

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

## Message:

COSMOPLENE AV161 is low flow, high stiffness and high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AV161 is suitable for commodity products such as chair, crates, containers, detergent pails, toys, tool boxes, seat bottom, battery case etc.

General Information			
Features	Copolymer		
	High Impact Resistance		
	Low Flow		
Uses	Containers		
	Furniture		
	Pails		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
UL File Number	E108370		
Forms	Pellets		
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)	5.0	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 2.00 mm	1.5	%	
Across Flow : 2.00 mm	1.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	88		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.0	MPa	
Break	24.0	MPa	
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	1040	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	45	J/m	
23°C	100	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	116	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	190 to 230	°C	
Middle Temperature	190 to 230	°C	
Front Temperature	190 to 230	°C	
Mold Temperature	30.0	°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

