

# COSMOPLENE® AW184

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

## Message:

COSMOPLENE AW184 is high gloss, medium flow, high stiffness and high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AW184 is suitable for products such as electric fan stand, motor bike fender, chair, toilet seat, tool boxes which require high gloss etc.

General Information			
Features	High Gloss		
	High Stiffness		
	Impact Copolymer		
	Medium Flow		
	Ultra High Impact Resistance		
Uses	Automotive Applications		
	Furniture		
	Tool/Tote Box		
	Toys		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	9.0	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 2.00 mm	1.3	%	
Across Flow : 2.00 mm	1.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.5	MPa	
Break	20.5	MPa	
Tensile Elongation (Break)	400	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	54	J/m	
23°C	150	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	119	°C	ASTM D648
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

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