



# The Polyolefin Company (Singapore) Pte. Ltd.

Office : 150 Beach Road, #10-00 Gateway West, Singapore 189720

Tel: (65) 6292 9622 Fax: (65) 6293 8890, (65) 6292 6595, (65) 6293 2748

Plant : 401 Ayer Merbau Road, Singapore 628285

Website: www.tpc.com.sg

Co. Reg. No.: 198001666D

## COSMOPLENE<sup>®</sup> AW864

### CHARACTERISTICS

**COSMOPLENE AW864** is a high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

**COSMOPLENE AW864** is medium flow, high stiffness, high impact copolymer grade which contains anti-static agent and UV stabilizers.

### APPLICATIONS

**COSMOPLENE AW864** is specially designed for crates, washing machine parts and automotive parts.

### PHYSICAL PROPERTIES

ITEM	UNIT	AW864	TEST METHOD
Melt Flow Rate	g/10 min	9	ASTM D1238
Density	g/cm <sup>3</sup>	0.90	ASTM D792
Tensile Strength at Yield	MPa	27.5	ASTM D638
Tensile Strength at Break	MPa	23.0	ASTM D638
Elongation at Break	%	300	ASTM D638
Flexural Modulus	MPa	1290	ASTM D790
Izod Impact (23°C)	J/m	92	ASTM D256
(-20°C)	J/m	45	ASTM D256
Rockwell Hardness	R scale	91	ASTM D785
HDT (0.45MPa)	°C	124	ASTM D648
Shrinkage MD/TD (2mm)	%	1.6/1.7	TPC METHOD
Flammability (E108370)	-	HB	UL 94
Weatherability (63°C)	Hr.	1000	SWOM
Surface Resistivity	OHM	10 <sup>13</sup>	ASTM D257

### 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.



Jan 2011

**COSMOPLENE<sup>®</sup>**

POLYPROPYLENE

**COSMOTHENE<sup>®</sup>**

LOW DENSITY POLYETHYLENE

**COSMOTHENE<sup>®</sup> EVA**

ETHYLENE VINYL  
ACETATE COPOLYMER