



# COSMOPLENE® AS164

## CHARACTERISTICS

**COSMOPLENE AS164** is a melt stable, high stiffness, super high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

## APPLICATIONS

**COSMOPLENE AS164** is suitable for products such as injection for seat bottom, extrusion for corrugated sheet, pipe and fittings, bicycle rims, blow bottle etc.

**AS164** complies with U.S. FDA Regulation 21 CFR 177.1520 (C) 3.2a, 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	AS164	TEST METHOD
Melt Flow Rate	g/10 min	1.2	ASTM D1238
Density	g/cm <sup>3</sup>	0.90	ASTM D792
Tensile Strength at Yield	MPa	28.5	ASTM D638
Tensile Strength at Break	MPa	26.0	ASTM D638
Elongation at Break	%	> 500	ASTM D638
Flexural Modulus	MPa	1100	ASTM D790
Izod Impact (23°C)	J/m	485	ASTM D256
(-20°C)	J/m	62	ASTM D256
Rockwell Hardness	R scale	86	ASTM D785
HDT (0.45MPa)	°C	117	ASTM D648
Shrinkage MD/TD (2mm)	%	1.5/1.4	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.

