



COSMOPLENE[®] AR564

CHARACTERISTICS

COSMOPLENE AR564 is a high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AR564 is high flow, high stiffness, high impact copolymer grade which can perform faster injection cycle.

APPLICATIONS

COSMOPLENE AR564 is specially designed for tub of washing machine, thin wall containers, toys and electrical appliances which require high flow and high impact strength.

AR564 complies with U.S. FDA Regulation 21 CFR 177.1520 (C) 3.1a, 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	AR564	TEST METHOD
Melt Flow Rate	g/10 min	24	ASTM D1238
Density	g/cm ³	0.90	ASTM D792
Tensile Strength at Yield	MPa	25.0	ASTM D638
Tensile Strength at Break	MPa	18.0	ASTM D638
Elongation at Break	%	120	ASTM D638
Flexural Modulus	MPa	1140	ASTM D790
Izod Impact (23°C)	J/m	85	ASTM D256
(-20°C)	J/m	45	ASTM D256
Rockwell Hardness	R scale	85	ASTM D785
HDT (0.45MPa)	°C	118	ASTM D648
Shrinkage MD/TD (2mm)	%	1.5/1.5	TPC METHOD
Flammability (E108370)	-	HB	UL 94

INJECTION

Cylinder Temp (°C)	:	190 - 230
Mold Temp (°C)	:	30
Clamp Pressure (kg/cm ²)	:	100
Injection Pressure G (kg/cm ²)	:	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.

