



The Polyolefin Company (Singapore) Pte

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COSMOPLENE® AY564

CHARACTERISTICS

COSMOPLENE AY564 is a high impact PP copolymer manufactured by phase process technology licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AY564 is medium flow, high stiffness, high impact copolymer grade which can perform faster injection cycle.

APPLICATIONS

COSMOPLENE AY564 is specially designed for tub of washing machine and electrical appliances which require high flow and high impact strength.

PHYSICAL PROPERTIES

ITEM	UNIT	AY564	TEST METHOD
Melt Flow Rate	g/10 min	16	ASTM D1238
Density	g/cm ³	0.90	ASTM D792
Tensile Strength at Yield	MPa	28.0	ASTM D638
Tensile Strength at Break	MPa	20.0	ASTM D638
Elongation at Break	%	200	ASTM D638
Flexural Modulus	MPa	1315	ASTM D790
Izod Impact (23°C)	J/m	80	ASTM D256
(-20°C)	J/m	42	ASTM D256
Rockwell Hardness	R scale	92	ASTM D785
HDT (0.45MPa)	°C	124	ASTM D648
Shrinkage MD/TD (2mm)	%	1.6/1.7	TPC METHOD
Flammability (E108370)	-	HB	UL 94

INJECTION

Cylinder Temp (°C) : 190 - 230
 Mold Temp (°C) : 30
 Clamp Pressure (Kg/cm²) : 100
 Injection Pressure G (Kg/cm²) : 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.