



The Polyolefin Company (Singapore) Pte

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COSMOPLENE® AW161

CHARACTERISTICS

COSMOPLENE AW161 is a medium flow, high stiffness and high impact copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

APPLICATIONS

COSMOPLENE AW161 is suitable for commodity products such as containers, toys, tool boxes, battery case etc.

AW161 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 contact article.

PHYSICAL PROPERTIES

ITEM	UNIT	AW161	TEST METHOD
Melt Flow Rate	g/10 min	9	ASTM D1238
Density	g/cm ³	0.90	ASTM D792
Tensile Strength at Yield	MPa	28.5	ASTM D638
Tensile Strength at Break	MPa	23.5	ASTM D638
Elongation at Break	%	400	ASTM D638
Flexural Modulus	MPa	1170	ASTM D790
Izod Impact (23°C)	J/m	75	ASTM D256
(-20°C)	J/m	38	ASTM D256
Rockwell Hardness	R scale	90	ASTM D785
HDT (0.45MPa)	°C	117	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/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, for the use of the product.