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® AX161

CHARACTERISTICS

COSMOPLENE AX161 is a impact PP copolymer manufactured by the latest gas phase process licensed from Sumitomo Chemical Co. Japan. It exhibits good impact and stiffness balance at high melt flow rate.

COSMOPLENE AX161 also shows excellent flowability and good surface appearance of parts after molding.

APPLICATIONS

COSMOPLENE AX161 is suitable for injection molding of thin-wall containers, housewares, etc.

AX161 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	AX161	TEST METHOD
Melt Flow Rate	g/10 min	65	ASTM D1238
Density	g/cm^3	0.90	ASTM D792
Tensile Strength at Yield	MPa	30	ASTM D638
Tensile Strength at Break	MPa	19	ASTM D638
Elongation at Break	%	20	ASTM D638
Flexural Modulus	MPa	1415	ASTM D790
Izod Impact (23°C)	J/m	59	ASTM D256
(-20°C)	J/m	26	ASTM D256
Rockwell Hardness	R scale	97	ASTM D785
HDT (0.45MPa)	°C	129	ASTM D648
Shrinkage MD/TD (2mm)	%	1.5/1.6	TPC METHOD

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.

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OUR COMMITMENT TO SUSTAINABILITY

CERTIFICATE SG99 16071 CERTIFICATE SG05 00847

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