

COSMOPLENE® AW191

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

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Technical Data

Product Description

COSMOPLENE AW191 is high impact PP copolymer manufactured by gas phase process technology licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AW191 is medium flow, super high impact copolymer grade.

COSMOPLENE AW191 is specially designed for industrial use such as crates, bumper, automotive parts etc.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• COSMOPLENE®		
Availability	• Asia Pacific		
Features	• Impact Copolymer	• Medium Flow	• Ultra High Impact Resistance
Uses	• Automotive Applications	• Crates	• Industrial Applications
UL File Number	• E108370		
Forms	• Pellets		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	0.900 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	10 g/10 min	ASTM D1238
Molding Shrinkage		Internal Method
Flow : 2.00 mm	1.4 %	
Across Flow : 2.00 mm	1.4 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	20.0 MPa	
Break	22.5 MPa	
Tensile Elongation (Break)	500 %	ASTM D638
Flexural Modulus	870 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
-20°C	80 J/m	
23°C	550 J/m	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	68	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	110 °C	

Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94



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Injection	Nominal Value Unit
Rear Temperature	190 to 230 °C
Middle Temperature	190 to 230 °C
Front Temperature	190 to 230 °C
Injection Pressure	6.86 MPa
Clamp Tonnage	0.98 kN/cm ²

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

