

COSMOPLENE® AS164

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOPLENE AS164 is melt stable, high stiffness, super high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.
COSMOPLENE AS164 is suitable for products such as injection for seat bottom, extrusion for corrugated sheet, pipe and fittings, bicycle rims, blow bottle etc.

General Information	
Features	High Melt Stability
	High Stiffness
	Impact Copolymer
	Ultra High Impact Resistance
Uses	Bottles
	Fittings
	Medical/Healthcare Applications
	Piping
	Seats
	Sheet
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Forms	Pellets
Processing Method	Blow Molding
	Injection Molding
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	1.2	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 2.00 mm	1.5	%	
Across Flow : 2.00 mm	1.4	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.5	MPa	
Break	26.0	MPa	
Tensile Elongation (Break)	> 500	%	ASTM D638

Flexural Modulus	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	62	J/m	
23°C	490	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	117	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	190 to 230	°C	
Middle Temperature	190 to 230	°C	
Front Temperature	190 to 230	°C	
Mold Temperature	30.0	°C	
Injection Pressure	6.86	MPa	
Clamp Tonnage	0.98	kN/cm ²	

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