

COSMOPLENE® AW564

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOPLENE AW564 is high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AW564 is medium flow, high stiffness, high impact copolymer grade.

COSMOPLENE AW564 is specially designed for crate and base for washing machine etc.

General Information			
Features	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
	Medium Flow		
Uses	Appliance Components		
	Crates		
UL File Number	E108370		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	9.0	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 2.00 mm	1.6	%	
Across Flow : 2.00 mm	1.7	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.5	MPa	
Break	23.0	MPa	
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	1290	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	45	J/m	
23°C	92	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	124	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating	HB	UL 94
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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