

COSMOPLENE® AY564

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOPLENE AY564 is high impact PP copolymer manufactured by gas phase process technology licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AY564 is medium flow, high stiffness, high impact copolymer grade which can perform faster injection cycle.

COSMOPLENE AY564 is specially designed for tub of washing machine and electrical appliances which require high flow and high impact strength.

General Information			
Features	High Flow		
	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
Uses	Appliance Components		
	Crates		
	Electrical/Electronic Applications		
	Thin-walled Containers		
	Toys		
UL File Number	E108370		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	16	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)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.0	MPa	
Break	20.0	MPa	
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	1320	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	42	J/m	
23°C	80	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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