

COSMOPLENE® AW864

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOPLENE AW864 is high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.
COSMOPLENE AW864 is medium flow, high stiffness, high impact copolymer grade which contains anti-static agent and UV stabilizers.
COSMOPLENE AW864 is specially designed for crates, washing machine parts and automotive parts.

General Information			
Additive	Antistatic UV Stabilizer		
Features	Antistatic High Flow 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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Weather Resistance ¹ (63°C)	1.4	month	Internal Method
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	
NOTE			
1.	SWOM		

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