

COSMOPLENE® AX668

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOPLENE AX668 is high flow, high stiffness and high impact PP block copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AX668 is suitable for thin gauge injection products such as lid and operation panel of washing machine and automotive parts.

COSMOPLENE AX668 is formulated with UV stabilizer and is good for outdoor applications.

General Information			
Additive	UV Stabilizer		
Features	Block Copolymer		
	Good UV Resistance		
	High Flow		
	High Stiffness		
	Medium Impact Resistance		
Uses	Appliance Components		
	Outdoor Applications		
	Thin-walled Parts		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	65	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	27.5	MPa	
Break	17.0	MPa	
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1320	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	40	J/m	
23°C	65	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	126	°C	ASTM D648
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 to 40.0	°C	
Injection Pressure	6.86	MPa	
Clamp Tonnage	0.98	kN/cm ²	
NOTE			

1. SWOM

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

