

COSMOPLENE® AZ564G

Polypropylene Copolymer

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOPLENE AZ564G is high impact PP copolymer manufactured by gas phase process licensed from Sumitomo Chemical Co. Japan.

COSMOPLENE AZ564G is high flow, high stiffness, high impact copolymer grade.

COSMOPLENE AZ564G is specially designed for industrial parts, automotive door trims and electrical appliances etc.

General Information			
Features	High Flow		
	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
Uses	Industrial Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	38	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 2.00 mm	1.5	%	
Across Flow : 2.00 mm	1.7	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	23.5	MPa	
Break	15.0	MPa	
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	46	J/m	
23°C	85	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	122	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (E108370)	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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