

Wednesday, November 13, 2013

Sumitomo PP AZ764

Sumitomo Chemical Asia - Polypropylene Copolymer

Units

Action

[Legend \(Open\)](#)



General Information

Product Description

Pre-marketing material is manufactured by The Polyolefin Company (Singapore) Pte Ltd (TPC) and may be packaged as Cosmoplene AZ764 in TPC bags.

Applications: For general purpose applications such as pails and containers, thin walled packaging, electrical appliances, housewares, etc.

Characteristics: High flow, high impact, high stiffness and high heat stability, with nucleating and antistatic agent.

General

Material Status	Commercial: Active
Availability	Asia Pacific, Europe
Additive	Antistatic, Nucleating Agent
Features	Antistatic, High Flow, Nucleated, Block Copolymer, High Impact Resistance, Good Thermal Stability, High Stiffness
Uses	Appliance Components, Containers, Pails, Appliances, Household Goods, Thin-walled Packaging
Agency Ratings	EU 2002/72/EC, EU 2004/19/EC
Forms	Pellets
Processing Method	Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.900 g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	38 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	24.0 MPa	ASTM D638
Tensile Strength (Break)	16.0 MPa	ASTM D638
Tensile Elongation (Break)	60 %	ASTM D638
Flexural Modulus	1200 MPa	ASTM D790A
Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength		ASTM D256
-20°C	6.0 kJ/m ²	
23°C	9.0 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness	85	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	122 °C	ASTM D648
Vicat Softening Temperature	67.0 °C	ASTM D1525 ²
Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94

Processing Information

Injection	Nominal Value Unit
Processing (Melt) Temp	190 to 230 °C
Mold Temperature	30.0 °C

Notes

¹Typical properties: these are not to be construed as specifications.

²Rate B (120°C/h), Loading 2 (50 N)



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Nominal ValueThe information presented on this datasheet was acquired by UL IDES from the producer of the material. UL IDES makes substantial efforts to assure the accuracy of this data. However, UL IDES assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

