

Sumitomo PP AV161

Polypropylene Copolymer

Sumitomo Chemical Asia

Message:

Applications For general purpose applications such as houseware, furniture, battery cases, crates, containers, chair, toys, and detergent pails, etc.
Characteristics Medium flow, high impact, high stiffness, and high heat stability.

General Information			
Features	Block Copolymer		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
	Medium Flow		
Uses	Battery Cases		
	Containers		
	Crates		
	Furniture		
	General Purpose		
	Household Goods		
	Pails		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Injection Molding		
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)	5.0	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Across Flow	1.4	%	
Flow	1.4	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	25.0	MPa	
Break	13.0	MPa	
Flexural Modulus	1170	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method


Notched Izod Impact Strength			ASTM D256
-20°C	4.0	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	106	°C	ASTM D648
Vicat Softening Temperature	154	°C	ASTM D1525 ¹
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	20.0 to 70.0	°C	
NOTE			
1.	Loading 1 (10 N)		

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