

# Petro Rabigh PP AV161

Polypropylene Impact Copolymer  
Rabigh Refining & Petrochemical Co.

Message:

AV161 is a block copolymer polypropylene formulated with nucleating agent and intended for general-purpose injection molding. Injection molding parts made from this resin exhibit high impact and high stiffness.

- Applications
- Commodity
- Battery
- Containers
- Chairs
- Seat bottom

General Information			
Additive	Nucleating Agent		
Features	Block Copolymer		
	General Purpose		
	High Impact Resistance		
	Nucleated		
Uses	Batteries		
	Consumer Applications		
	Containers		
	Furniture		
	Seats		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow	1.4	%	
Across Flow	1.4	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	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 D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ASTM D256


-20°C	4.0	kJ/m <sup>2</sup>	
23°C	10	kJ/m <sup>2</sup>	
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 <sup>1</sup>
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 230	°C	
NOTE			
1.	Loading 1 (10 N)		

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