

# Petro Rabigh PP AR564

Polypropylene Impact Copolymer

Rabigh Refining & Petrochemical Co.

Message:

AR564 is a block copolymer polypropylene intended for industrial application. It has a medium melt flow and formulated with nucleating agent to enhance the stiffness. Injection molding parts made from this resin exhibit good impact, high stiffness and good heat stability.

Applications

Crates

Pails

Industrial application

Electrical appliances

General Information			
Additive	Nucleating Agent		
Features	Block Copolymer		
	Good Impact Resistance		
	Heat Stabilized		
	High Stiffness		
	Medium Flow		
	Nucleated		
Uses	Appliances		
	Crates		
	Industrial Applications		
	Pails		
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)	25	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	24.0	MPa	
Break	17.0	MPa	
Flexural Modulus	1290	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength			ASTM D256
-20°C	5.0	kJ/m <sup>2</sup>	
23°C	8.0	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	109	°C	ASTM D648
Vicat Softening Temperature	151	°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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