

Petro Rabigh PP Y101

Polypropylene Homopolymer
Rabigh Refining & Petrochemical Co.

Message:

Y101 is a homopolymer polypropylene intended for injection molding applications. Molded part made from this resin exhibit high stiffness, good heat resistance and good flow characteristic.

Applications
General purpose
Housewares

General Information			
Features	Good Flow		
	High Heat Resistance		
	High Stiffness		
	Homopolymer		
Uses	General Purpose		
	Household Goods		
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)	15	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow	1.2	%	
Across Flow	1.2	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	34.0	MPa	
Break	28.0	MPa	
Flexural Modulus	1700	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	2.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	116	°C	ASTM D648
Vicat Softening Temperature	158	°C	ASTM D1525 ¹
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	

Injection	Nominal Value	Unit
Processing (Melt) Temp	160 to 240	°C
NOTE		
1.	Loading 1 (10 N)	

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