

# SABIC® PP 57MNK10

Polypropylene Impact Copolymer

SABIC Americas, Inc.

## Message:

### Product Description

PP 57MNK10 is a controlled rheology PP grade of medium molecular weight distribution specially developed for producing injection molded articles. This grade has a excellent impact resistance (even at low temperature) and good stiffness.

### Typical Applications

PP 57MNK10 can be used for: garden furniture, housewares, containers, toys, crates & boxes.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	High Stiffness		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Med.-Wide Molecular Weight Distrib.		
	Nucleated		
	Ultra High Impact Resistance		
Uses	Containers		
	Crates		
	Household Goods		
	Outdoor Applications		
	Outdoor Furnishings		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage	1.2 to 2.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	1300	MPa	ASTM D638
Tensile Strength (Yield, Injection Molded)	25.0	MPa	ASTM D638

Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	55	J/m	
23°C, Injection Molded	120	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 <sup>1</sup>
Injection	Nominal Value	Unit	
Rear Temperature	200 to 250	°C	
Middle Temperature	200 to 250	°C	
Front Temperature	200 to 250	°C	
Mold Temperature	15.0 to 40.0	°C	
NOTE			
1.	Rate B (120°C/h)		

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#### Recommended distributors for this material

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