

SABIC® PP 575P

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

This grade combines a high stiffness with moderate impact strength. It is suitable for production of complex articles with long flow paths and thin walls. Typical applications are closures and garden furniture.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-306885		
Features	High Stiffness		
	Homopolymer		
	Medium Impact Resistance		
	Wide Molecular Weight Distribution		
Uses	Closures		
	Furniture		
	Thin-walled Parts		
UL File Number	E111275		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	111		ASTM D785
Shore Hardness (Shore D)	69		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1800	MPa	ASTM D638
--	1700	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	36.0	MPa	ASTM D638
Yield	36.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	9.0	%	ASTM D638
Yield	9.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C	25	J/m	ASTM D256A
23°C	3.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	95.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	90.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	154	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	95.0	°C	ASTM D1525, ISO 306/B120 7 ⁷
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	testbar 80*10*4mm		
5.	testbar 80*10*4mm		
6.	Rate B (120°C/h), Loading 1 (10 N)		
7.	Rate B (120°C/h), Loading 2 (50 N)		

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