

SABIC® PP 90910

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 90910 is a reactor-elastomer-modified material which offers a good cold impact resistance in combination with high flow. It is a highly attractive alternative to non-filled compounds and is typically used for painted car bumpers and exterior trim.

SABIC® PP 90910 is a designated automotive grade.

General Information			
Additive	Impact Modifier		
	Nucleating Agent		
Features	High Flow		
	Impact Modified		
	Low Temperature Impact Resistance		
	Nucleated		
	Paintable		
	Ultra High Impact Resistance		
Uses	Automotive Applications		
	Automotive Bumper		
	Automotive Exterior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			Internal Method
Flow : 24 hr	1.6	%	
24 hr	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant : Injection Molded ¹	950	MPa	ASTM D638
Injection Molded	850	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield, Injection Molded ²	18.0	MPa	ASTM D638

Yield, Injection Molded	18.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield, Injection Molded ³	8.0	%	ASTM D638
Yield, Injection Molded	8.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C, Injection Molded	No Break		
23°C, Injection Molded	No Break		
Notched Izod Impact			
-20°C, Injection Molded	200	J/m	ASTM D256A
0°C, Injection Molded	No Break		ASTM D256A, ISO 180/1A
23°C, Injection Molded	No Break		ASTM D256A, ISO 180/1A
-20°C, Injection Molded	15	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	125	°C	ASTM D1525, ISO 306/A120 4 ⁴
--	49.0	°C	ASTM D1525, ISO 306/B120 5 ⁵
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	Rate B (120°C/h), Loading 1 (10 N)		
5.	Rate B (120°C/h), Loading 2 (50 N)		

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