SABIC® PPcompound 108CSF10

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 108CSF10 is a development grade, elastomer-modified mineral filled Polypropylene for automotive exterior applications. This material has been designed to combine a good performance profile with good processing. SABIC® PP 108CSF10 is a designated automotive grade.

Filler / Reinforcement Mineral Additive Impact Modifier Features Good Processability Impact Modified Uses Automotive Applications Automotive Exterior Parts Forms Pellets Processing Method Injection Molding Physical Nominal Value Density 0.960 gr/10 min ISO 1183 Molding Shrinkage (24 hr) 1.2 Hardness Nominal Value Molded 1.2 Molded 1.50 1133 Molded 6.3 Stores Shore D, Injection Molded 1.50 1133 Models Internal Method Tensile Stress ISO 868 Mechanical Nominal Value Unit Tensile Stress ISO 868 Molded 7.0 MPa Tensile Strain (Break, 320 mm, Injection Molded) 500 % Nominal Value Unit Test Method Impact Modulus ¹ (Injection Molded) 1300 MPa Impact Modulus ¹ (Injection Molded) 1300 MPa Impact Modulus ¹ (Injection Molded) 1300 S0 179/1eA Impact Moldel Norminal Value Unit Test Method Impact Modulus ¹ (Injection Molded) 1300 <th>General Information</th> <th></th> <th></th> <th></th>	General Information			
Fetures Good Processability impact Modified Uses Automotive Applications Automotive Exterior Parts Forms Pellets Processing Method injection Moding Physical Nominal Value Unit Density 0960 gora* Meth Mass-Flow Rate (MFR) (230°C/21) 10 gora* Methodse 63 isco Baid Moled 63 isco Baid Moled 10.0 MPa Tensile Stress isco Store-Distrigotion isco Store-Distrigotion Moladed 10.0 MPa isco Store-Distrigotion Molade/1 10.0 MPa isco Store-Distrigotion Molade/1 10.0 MPa isco Taylory Catel	Filler / Reinforcement	Mineral		
Impact Modified Uses Autonotive Applications Autonotive Enterior Parts Forms Autonotive Enterior Parts Processing Method Pelets Processing Method Infection Moding Physical Norminal Value Infection Moding Physical Norminal Value Infection Moding Method Sprinkage (APR) (2007)261 Globan Globan Method Sprinkage (APR) (2007)262 Globan Globan Method Sprinkage (APR) (2007)261 Globan Globan Internal Method Method Sprinkage (APR) (2007)261 Globan Globan Internal Method Method Sprinkage (APR) (2007)261 Globan Moninal Value Internal Method Method Sprinkage (APR) Globan Mo	Additive	Impact Modifier		
Labore Server Serve	Features	Good Processability		
Automative Exterior Parts Forms Pelts Processing Method Inciton Moding Project Norminal Value Olin Denity 0.960 granting Image: Sing Method Single Sing		Impact Modified		
kotometer Exterior Parts Forms Pelts Processing Method inciton Moding Project Norminal Value Onit Denity 0.960 gran? Denity 0.960 gran? Moling Springer Method (Springer Method) Springer Method Moling Springer Method (Springer Method) Springer Method Moling Springer Method (Springer Method) Springer Method Moling Springer Method (Springer Method) Springer Method) Moling Springer Method (Springer Method) Springer Method) Moling Springer Method)				
FormsPelletsProcessing MethodInjection MoldingPhysicalNominal ValueUnitTest MethodDensity0.960g/cm²ISO 1183Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)10g/10 minISO 1133Molding Shrinkage (24 hr)1.2%Internal MethodHardnessNominal ValueUnitTest MethodMolding Shrinkage (24 hr)1.2%Internal MethodHardness (Shore D, Injection Molded)63Sio 183Iso 183Molded)63UnitTest MethodTensile StressIso 257-2/5/50Iso 527-2/5/50Yeled, 3.20 mm, Injection Molded10.0MPaTensile Strain (Break, 3.20 mm, Injection Molded)Sio 527-2/5/50Nominal ValueUnitTest MethodTensile Strain (Break, 3.20 mm, Injection Molded)Sio 0%Nominal ValueUnitTest MethodInpactToo MoldedMPaStrin Dr30InpactNominal ValueUnitTest MethodInpactNominal ValueUnitTest MethodInpactNominal ValueUnitStrin Dr30InpactNominal ValueUnitTest MethodInpactNominal ValueUnitStrin Dr30InpactNominal ValueUnitStrin Dr30InpactNominal ValueUnitStrin Dr30InpactNominal ValueUnitStrin Dr30InpactNominal ValueUnitStrin Dr30<	Uses	Automotive Applications		
Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 0 g/cm³ ISO 1133 Melt Mass-Filow Rate (MFR) (230°C/216 (Ms) g/10 min ISO 1133 Molding Shrinkage (24 hr) 12 % Internal Method Molding Shrinkage (24 hr) 12 % Internal Method Hardness Nominal Value Vinit Test Method Molded) So 268 Iso 868 Iso 868 Mechanical Nominal Value Unit Test Method Mechanical Nominal Value MPa Iso 527-2/5/50 Yield, 3.20 mm, Injection Molded 10.0 MPa Iso 527-2/5/50 Image: Shore Junipetion Molded 10.0 MPa Iso 527-2/5/50 Image: Modulus ¹ (Injection Molded) 10.0 MPa Iso 179/124 Image: Modulus ¹ (Injection Molded) 10.0 MPa Iso 179/124 Image: Modulus ¹ (Injection Molded) 10.0 MPa Iso 179/124 Image: Moduled No Break Iso 179		Automotive Exterior Parts		
Processing MethodInjection MoldingPhysicalNominal ValueUnitTest MethodDensity0.960g/cm³ISO 1133Melt Mass-Flow Rate (MFR) (230°C/216 (30°C/216)g/10 minISO 1133Molding Shrinkage (24 hr)1.2%Internal MethodMolding Shrinkage (24 hr)1.2%Internal MethodHardnessNominal ValueUnitTest MethodMolded)So 267IsO 868IsO 868Modelag Shore D, Injection Molded63Internal MethodMolders Shore D, Injection Molded20.0MPaIso 527-2/5/50Yield, 3.20 mm, Injection Molded17.0MPaIso 527-2/5/50Nominal ValueMPaIso 527-2/5/50Iso 527-2/5/50Nolded1.30MPaASTM D790InpactNominal ValueUnitTest MethodInpactNominal ValueMPaSIG 179/1eAInpactNominal ValueUnitTest MethodInpactNominal ValueUnitTest MethodInpactNominal ValueUnitTest MethodInpactNominal ValueUnitTest MethodInpactNo BreakIso 179/1eAIso 179/1eAInpactNo BreakIso 179/1eAIso 179/1eAInpact Impact Strength (-40°C) Injection MoldedIso 180/AIso 180/AInpact Impact StrengthIso 180/AIso 180/AIso 180/AInpact Impact StrengthIso 180/AIso 180/AIso 180/AInpact Im				
PhysicalNominal ValueUnitTest MethodDensity0.960g/cm³ISO 1183Melt Mass-Flow Rate (MFR) (230°C/2.16g/10 minISO 1133Molding Shrinkage (24 hr)1.2%Internal MethodHardnessNominal ValueUnitTest MethodHardnessNominal ValueUnitTest MethodShore Hardness (Shore D, Injection Molded)63IsO 868MechanicalNominal ValueUnitTest MethodTensile StressISO 527-2/5/50IsO 527-2/5/50Yield, 3.20 mm, Injection Molded17.0MPaBreak, 3.20 mm, Injection Molded1300MPaFlexural Modulus ¹ (Injection Molded)1300MPaInpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakIsO 179/1eACharpy Unnotched Impact Strength (40°C, Injection Molded)No BreakIsO 179/1eACharpy Unnotched Impact Strength (40°C, Injection Molded)S0 179/1eUIsO 179/1eUNotched Izod Impact Strength (40°C, Injection Molded)IsO 179/1eUIsO 179/1eUNotched Izod Impact Strength (40°C, Injection Molded)IsO 180/4AIsO 180/4ANotched Izod Impact StrengthS0 0K/m²IsO 180/4A	Forms	Pellets		
Density0,960g/cm³ISO 1183Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)10g/10 minISO 1133Molding Shrinkage (24 hr)1.2%Internal MethodHardnessNominal ValueUnitTest MethodShore Hardness (Shore D, Injection Molded)63IsO 183IsO 183MechanicalNominal ValueUnitTest MethodTensile StressIsO 267-2/5/50IsO 527-2/5/50Yield, 3.20 mm, Injection Molded7.0MPaIsO 527-2/5/50Molded)500%IsO 527-2/5/50Molded)1300MPaStor 527-2/5/50ImpactNominal ValueUnitTest MethodImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakStor 72/5/50Charpy Unnotched Impact Strength (43°C, Injection Molded)No BreakIsO 179/1eUNotched Izod Impact Strength6.0K/m²IsO 179/1eUNotched Izod Impact Strength8.0K/m²IsO 180/A	Processing Method	Injection Molding		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)10g/10 minISO 1133Molding Shrinkage (24 hr)1.2%Internal MethodHardnessNominal ValueUnitTest MethodShore Hardness (Shore D, Injection Molded)63ISO 868MoehanicalNominal ValueUnitTest MethodTensile StressISO 808ISO 827-2/5/S0Yield, 3.20 mm, Injection Molded20.0MPaISO 527-2/5/S0Molded)17.0MPaISO 527-2/5/S0Fersile Strain (Break, 3.20 mm, Injection Molded)500%And PaSIO 527-2/5/S0ImpactNominal ValueUnitTest MethodImpactNominal ValueMPaSIO 527-2/5/S0ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakIso 179/1eACharpy Unnotched Impact Strength (24°C, Injection Molded)No BreakK/m²Iso 179/1eUCharpy Unnotched Impact Strength (24°C, Injection Molded)63K/m²Iso 180/ANotched Izod Impact Strength63K/m²Iso 180/A	Physical	Nominal Value	Unit	Test Method
kg)10g/10 minSO 1133Molding Shrinkage (24 hr)1.2%Internal MethodHardnessNominal ValueUnitTest MethodShore Hardness (Shore D, Injection Molded)63InternalIso 868MechanicalNominal ValueUnitTest MethodMonder JNominal ValueUnitTest MethodFensile StressIso 527-2/5/50Iso 527-2/5/50Yield, 3.20 mm, Injection Molded20.0MPaIso 527-2/5/50Break, 3.20 mm, Injection10.0MPaIso 527-2/5/50Feural Modulus ¹ (Injection Molded)130.0MPaSto 527-2/5/50ImpactNominal ValueUnitTest MethodIngreactNominal ValueUnitTest MethodIngreactNo FreakIso 179/1eAIso 179/1eAIngreactNo FreakIso 180/AIso 179/1eAIngreact Ingreact Strength (23°C)No FreakIso 180/AIngreact Ingreact Strength (23°C)Iso 180/AIso 180/AIngreact Ingreact Strength (24°C)Iso	Density	0.960	g/cm³	ISO 1183
Molding Shrinkage (24 hr)1.2%Internal MethodHardnessNominal ValueUnitTest MethodShore Hardness (Shore D, Injection Molded)63ISO 868MechanicalNominal ValueUnitTest MethodTensile StressISO 527-2/5/50Yield, 3.20 nm, Injection Molded20.0MPaBreak, 3.20 nm, Injection Molded17.0MPaTensile Strain (Break, 3.20 nm, Injection500%ISO 527-2/5/50Nolded)1300MPaSO 527-2/5/50Flexural Modulus ¹ (Injection Molded)1300MPaSO 527-2/5/50ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakISO 179/1eACharpy Unnotched Impact Strength (40°C, Injection Molded)60k/m²ISO 179/1eUNotched Izod Impact Strength8.0k//m²ISO 180/AA		10	a /10 min	100 1100
HardnessNominal ValueUnitTest MethodShore Hardness (Shore D, Injection Molded)63ISO 868MechanicalNominal ValueUnitTest MethodMechanicalNominal ValueUnitTest MethodTensile StressISO 527-2/5/50Yield, 3.20 mm, Injection Molded20.0MPaBreak, 3.20 mm, Injection Molded17.0MPaTensile Strain (Break, 3.20 mm, Injection Molded)500%ISO 527-2/5/50Flexural Modulus ¹ (Injection Molded)1300MPaASTM D790ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakIso 179/1eACharpy Unnotched Impact Strength (-40°C, Injection Molded)60kl/m²Iso 180/4ANotched Izod Impact Strength8.0kl/m²Iso 180/4A				
Share Hardness (Shore D, Injection Molded) 63 ISO 868 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2/5/50 ISO 527-2/5/50 Yield, 3.20 mm, Injection Molded 20.0 MPa				
Molded)63ISO 868MechanicalNominal ValueUnitTest MethodTensile StressISO 527-2/5/50Yield, 3.20 mm, Injection Molded20.0MPaBreak, 3.20 mm, Injection Molded17.0MPaFessile Strain (Break, 3.20 mm, Injection)500%So 527-2/5/50Molded)500%So 527-2/5/50Fesural Modulus ¹ (Injection Molded)1300MPaASTM D790ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakSo 179/1eANothed Icon Molded60kJ/m²So 179/1eANotched Impact Strength (44°C) Injection Molded8.0KJ/m²		Nominal value	Unit	lest Method
Tensile StressISO 527-2/5/50Yield, 3.20 mm, Injection Molded20.0MPa		63		ISO 868
Yield, 3.20 mm, Injection Molded20.0MPaBreak, 3.20 mm, Injection Molded17.0MPaTensile Strain (Break, 3.20 mm, Injection Molded)500%ISO 527-2/5/50Flexural Modulus ¹ (Injection Molded)1300MPaASTM D790ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakISO 179/1eACharpy Unnotched Impact Strength (-40°C, Injection Molded)60kl/m²ISO 179/1eUNotched Izod Impact Strength8.0kl/m²ISO 180/4A	Mechanical	Nominal Value	Unit	Test Method
Break, 3.20 mm, Injection Molded17.0MPaTensile Strain (Break, 3.20 mm, Injection Molded)500%ISO 527-2/5/50Flexural Modulus ¹ (Injection Molded)1300MPaASTM D790ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakISO 179/1eACharpy Unnotched Impact Strength (-40°C, Injection Molded)60kl/m²ISO 179/1eUNotched Izod Impact StrengthSo 180/4AISO 180/4A-20°C, Injection Molded8.0kl/m²ISO 180/4A	Tensile Stress			ISO 527-2/5/50
Tensile Strain (Break, 3.20 mm, Injection Molded)500%ISO 527-2/5/50Flexural Modulus ¹ (Injection Molded)1300MPaASTM D790ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakISO 179/1eACharpy Unnotched Impact Strength (-40°C, Injection Molded)60kJ/m²ISO 179/1eUNotched Izod Impact StrengthISO 179/1eUISO 180/4A-20°C, Injection Molded8.0kJ/m²ISO 180/4A	Yield, 3.20 mm, Injection Molded	20.0	MPa	
Molded)500%ISO 527-2/5/00Flexural Modulus ¹ (Injection Molded)1300MPaASTM D790ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakSO 179/1eACharpy Unnotched Impact Strength (-40°C, Injection Molded)60k/m²ISO 179/1eUNotched Izod Impact StrengthSo 179/1eUISO 180/4ANotched Impact StrengthSo 180k/m²ISO 180/4A	Break, 3.20 mm, Injection Molded	17.0	MPa	
Flexural Modulus ¹ (Injection Molded)1300MPaASTM D790ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakISO 179/1eACharpy Unnotched Impact Strength (-40°C, Injection Molded)60kJ/m²ISO 179/1eUNotched Izod Impact Strength508.0kJ/m²ISO 180/4A	-			
ImpactNominal ValueUnitTest MethodCharpy Notched Impact Strength (23°C, Injection Molded)No BreakISO 179/1eACharpy Unnotched Impact Strength (-40°C, Injection Molded)60kJ/m²ISO 179/1eUNotched Izod Impact Strength60kJ/m²ISO 180/4A-20°C, Injection Molded8.0kJ/m²ISO 180/4A	· · · · · · · · · · · · · · · · · · ·	500	%	ISO 527-2/5/50
Charpy Notched Impact Strength (23°C, Injection Molded) No Break ISO 179/1eA Charpy Unnotched Impact Strength (-40°C, Injection Molded) 60 kJ/m² ISO 179/1eU Notched Izod Impact Strength 60 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.0 kJ/m² ISO 180/4A				
Injection Molded) No Break ISO 179/1eA Charpy Unnotched Impact Strength (-40°C, Injection Molded) 60 kJ/m² ISO 179/1eU Notched Izod Impact Strength -20°C, Injection Molded 8.0 kJ/m²		Nominal Value	Unit	Test Method
Injection Molded) 60 kJ/m² ISO 179/1eU Notched Izod Impact Strength ISO 180/4A -20°C, Injection Molded 8.0 kJ/m²		No Break		ISO 179/1eA
-20°C, Injection Molded 8.0 kJ/m ²		60	kJ/m²	ISO 179/1eU
-	Notched Izod Impact Strength			ISO 180/4A
0°C, Injection Molded No Break	-20°C, Injection Molded	8.0	kJ/m²	
	0°C, Injection Molded	No Break		

23°C, Injection Molded	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa,			
Unannealed)	100	°C	ISO 75-2/B
Vicat Softening Temperature	135	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	7.4E-5	cm/cm/°C	
23 to 80°C	1.0E-4	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

