Innoprene 2500N/B

Thermoplastic Vulcanizate

Kumho Polychem Co., Ltd.

Message:

Innoprene 2500N/B is a thermoplastic vulcanized rubber (TPV) material. This product is available in Europe or the Asia-Pacific region. The processing methods are: blow molding, extrusion, calendering or injection molding. The main features of Innoprene 2500N/B are: environmental protection/green Good tear strength Good flexibility good weather resistance chemical resistance Typical application areas include: Electrical/electronic applications electrical appliances home apps building applications Automotive Industry

General Information	
Features	Low compressive deformability
	Recyclable materials
	Good electrical performance
	Good flexibility
	Good tear strength
	Ozone resistance
	Good chemical resistance
	Fatigue resistance
	Good weather resistance
	Heat resistance, high
Uses	Electrical/Electronic Applications
	Electrical appliances
	Household goods
	Building materials
	Application in Automobile Field
	Business equipment
	Sporting goods
Appearance	Black
	Natural color
Forms	Particle
Processing Method	Blow molding

Extrusion

Calendering

Injection molding

Specific Gravity	Physical	Nominal Value	Unit	Test Method
25°C0.940ycm150 183HardnessNominal ValueUnitTest MethodDorometer Hardness (Shore D. 25°C)45ISO 868ElatomersNominal ValueUnitTest MethodTensile Streag (100% Strain, 25°C)981MPaASTM 0412, ISO 37Tensile Streag (100% Strain, 25°C)20.6MPaASTM 0412, ISO 37Tensile Elongation (Break, 25°C)550%ASTM 0412, ISO 37Tensile Elongation (Break, 25°C)108KN/mASTM 0412, ISO 37Tensile Strength108KN/mASTM 0412, ISO 37Compression SetCompression SetCompression Set70°C, 22 hr70%ASTM 0430120°C, 70 hr75%ASTM 0430ApingNominal ValueUnitTest MethodChange in Facilis Strength in Air (150°C, 150°C, 160 hr-23%ASTM 0412, ISO 188Change in Utilinate Elongation in Air 150°C, 160 hr-23%ASTM 0412, ISO 188Change in Shore Hardness in Air (Shore Air 150°C, 160 hr-25%ASTM 0412, ISO 188Change in Shore Hardness in Air (Shore Air 150°C, 160 hr-25%ASTM 0412, ISO 188Change in Shore Hardness in Air (Shore Air 150°C, 160 hr10.0%ASTM 0412, ISO 188Change in Shore Hardness in Air (Shore Air 150°C, 160 hr10.0%ASTM 041125°C, 168 hr, in 50% sodum hydroxide0.0%ASTM 0412, ISO 189Change in Shore Hardness in Air (Shore Air 150°C, 160 hrShore Air 150°	Specific Gravity			
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Durometer Hardness (Shone D, 25'C)45ISO 868ElastomersNominal ValueUnitTest MethodTensile Stress (100% Strain, 25'C)9.81MPaASTM 0412, ISO 37Tensile Etengath (Vield, 25'C)20.6MPaASTM 0412, ISO 37Tensile Etengath (Vield, 25'C)550%ASTM 0412, ISO 37Tensile Etengath (Vield, 25'C)550%ASTM 0412, ISO 37Ters Strength550%Moninal ValueASTM 0412, ISO 37Ters Strength100kN/mASTM 0452, ISO 37Zers Compression Set552108kN/mASTM 0395120°C, 70 hr70%ASTM 0395120°C, 70 hr75%ASTM 0395120°C, 70 hr,23%ASTM 0412, ISO 188Change in Tensile Strength in Air (IS0°C, 168 hr),23%ASTM 0412, ISO 188Change in Sonce Hardness in Air (S0°C, 168 hr),23%ASTM 0412, ISO 188Change in Sonce Hardness in Air (S0°C, 168 hr),30%ASTM 0412, ISO 188Change in Sonce Hardness in Air (S0°C, 168 hr),30%ASTM 0412, ISO 188Change in Sonce Hardness in Air (S0°C, 168 hr),30%ASTM 0412, ISO 188Change in MassSO 188SO 188Change in MassSO 188SO 189Change in MassSO 180SO 180Change in MassSO 180SO 180Change in MassSO 180SO 180Cha	25°C	0.940	g/cm³	ISO 1183
ElastomensNominal ValueUnitTest MethodTensile Stress (100% Strain, 25°C)9.81MPaASTM D412, ISO 37Tensile Strength (Yield, 25°C)550%ASTM D412, ISO 37Tersile Elongation (Break, 25°C)550%ASTM D412, ISO 37Tersile Elongation (Break, 25°C)550%ASTM D412, ISO 37Ters StrengthKN/mASTM D42, ISO 37Ters StrengthKN/mMSTM D42, ISO 3725°C108kN/mSO MD42, ISO 3725°C108kN/mMSTM D39525°C7075%ASTM D39520°C, 70 hr75%SO 81520°C, 70 hr75%SO 81520°C, 70 hr-23%ASTM D412, ISO 188Change in Tensile Strength in Air (ISO°C)-23%ASTM D412, ISO 188Change in Ultimate Elongation in Air (1S0°C, 168 hr)-23%ASTM D412, ISO 188Change in Store Hardness in Air (Shore)-25%ASTM D412, ISO 188Change in MassSO 182SO 18225°C, 168 hr, in 10% hydrochoric acid1.0%ASTM D47125°C, 168 hr, in 10% hydrochoric acid1.0%ASTM D47126°C, 168 hr, in 10% hydrochoric acid1.0%ASTM D471	Hardness	Nominal Value	Unit	Test Method
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Tensile Stength (Yield, 25'C)206MPaASTM D412, ISO 37Tensile Elongation (Break, 25'C)550%ASTM D412, ISO 37Tear Strength108kM/mASTM D62425'C100kM/mISO 34-1Compression Set7%ASTM D395120'C, 70 hr75%ASTM D395120'C, 70 hr75%ASTM D395120'C, 70 hr75%ASTM D395120'C, 70 hr75%ASTM D395120'C, 70 hr52%ASTM D412, ISO 188AgingNominal ValueUnitTest MethodChange in Tensile Strength in Air (ISO'C) 150'C, 168 hr, 10% hydrochloric acid3,0%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A 25'C, 168 hr, in 50% sodium hydroid0,0%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A 25'C, 168 hr, in 50% sodium hydroid10,0%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A 25'C, 168 hr, in 50% sodium hydroxied0,0%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A) 150'C, 168 hr, in 50% sodium hydroxied10,0%Martin Li, ISO 188Change in Shore Hardness in Air (Shore A) 150'C, 168 hr, in 50% sodium hydroxied10,0%Martin Li, ISO 188Change in Mass-56.0%Stott D41Stott D41Termerature (Type B)-56.0%Stott D41Stott D41Nominal ValueUnitTest MethodStott D41Stott D41Nominal	Elastomers	Nominal Value	Unit	Test Method
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Tear Strengt 125°C 108 kN/n ASTM D624 25°C 110 kN/n ISO 34-1 Compression Set	Tensile Strength (Yield, 25°C)	20.6	MPa	ASTM D412, ISO 37
25°C108kN/mASTM D62425°C110kN/mISO 34-1Compression Set70°C, 22 hr70°C, 70 hr%ASTM D395120°C, 70 hr75%ASTM D395120°C, 70 hr75%ISO 815AgingNominal ValueUnitTest MethodChange in Tensile Strength in Air (150°C, 168 hr)-23%ASTM D412, ISO 188Change in Tensile Strength in Air (150°C, 168 hr)-23%ASTM D412, ISO 188Change in Tensile Strength in Air (150°C, 168 hr)-23%ASTM D412, ISO 188Change in Tensile Strength in Air (150°C, 150°C, 168 hr)-23%ASTM D412, ISO 188Change in Tensile Strength in Air (150°C, 150°C, 168 hr)-23%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A, 150°C, 168 hr, in 10% hydrochore aid1.0%ASTM D412, ISO 188Change in Mass-25%ASTM D471Sto 188Change in Mass-56.0%ASTM D47125°C, 168 hr, in 10% hydrochore aid1.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide56.0%Sto 182Change InformationNominal ValueUnitTest MethodUV Resistance - 1000hr-56.0%Sto 196UV Resistance - 1000hrSto 180%Sto 196Dying Time3.0%%Sto 196Rear Temperature60.180%C <td< td=""><td>Tensile Elongation (Break, 25°C)</td><td>550</td><td>%</td><td>ASTM D412, ISO 37</td></td<>	Tensile Elongation (Break, 25°C)	550	%	ASTM D412, ISO 37
25°C110kV/mISO 34-1Compression Set70°C, 22 hr70%ASTM D395120°C, 70 hr75%ASTM D395120°C, 70 hr75%SO 815AgingNominal ValueUnitTest MethodChange in Tensile Strength in Air (150°C) 168 hr)-23%ASTM D412, ISO 188Change in Tensile Strength in Air (150°C) 168 hr)-25%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A 150°C, 168 hr).30%ASTM D412, ISO 188Change in Mass.25%ASTM D412, ISO 188Change in Mass.0%ASTM D47125°C, 168 hr, in 10% hydrochloric acid1.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxil0.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxil0.0%ASTM D47118° HerberSo 181So 182Additional InformationNominal ValueUnitTest MethodUV Resistance - 1000hrSo 181So 182Injeg Time3.0CSo 182Injeg Time3.0CSo 182Injeg Time3.0MinitSo 182Injeg Time3.0So 182So 182 <td< td=""><td>Tear Strength</td><td></td><td></td><td></td></td<>	Tear Strength			
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TOTC, 22 hr70%ASTM D395120°C, 70 hr75%ASTM D395120°C, 70 hr75%IsO 815AgingNominal ValueUnitTest MethodChange in Tensile Strength in Air (150°C, 168 hr)-23%ASTM D412, ISO 188Change in Ultimate Elongation in Air (150°C, 168 hr)-25%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A, 150°C, 168 hr)3.0IsO 188IsO 188Change in Shore Hardness in Air (Shore A, 50°C, 168 hr)3.0%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A, 50°C, 168 hr)3.0%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A, 50°C, 168 hr, in 10% hydrochloric acid1.0%ASTM D47125°C, 168 hr, in 10% hydrochloric acid0.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D471100 HormationNominal ValueTest MethodUV Resistance - 1000hrS6.0°CS6.0InjectionNominal ValueUnitTest MethodDrying Time3.0%S6.0°CNormal ValueUnitS6.0°CS6.0Drying Time3.0%S6.0°CNormal ValueGo°CS6.0°CDrying Time3.0%S6.0°C <tr< td=""><td>25°C</td><td>110</td><td>kN/m</td><td>ISO 34-1</td></tr<>	25°C	110	kN/m	ISO 34-1
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120°C, 70 hr 175%ISO 815AgingNominal ValueUnitTest MethodChange in Tensile Strength in Air (150°C, 168 hr)-23%ASTM D412, ISO 188Change in Ultimate Elongation in Air (150°C, 168 hr)-25%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A) 150°C, 168 hr).30Si So 188Si So 188Change in Mass.50.50Si MD 471Si So 188Change in Mass.0%ASTM D47125°C, 168 hr, in 10% hydrochloric acid1.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxid0.0%ASTM D471PremalNominal ValueUnitTest MethodBrittleness Temperature (Type B).56.0°CISO 812V Resistance - 1000hr.SASI D400SASI D400UV Resistance - 1000hr.SASI D400SASI D400InjectionNominal ValueUnitTest MethodDrying Temperature8.50°CSASI D400Drying Temperature.0%SASI D400Rear Temperature.00°CSCMiddle Temperature.00°CSCMiddle Temperature.00°CSCMiddle Temperature.00°CSCMiddle Temperature.00°CSCMiddle Temperature.00°CSCMiddle Temperature.00°CSCMiddle Temperature.00°CSCMiddle Temperature	70°C, 22 hr	70	%	ASTM D395
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168 hr)-23%ASTM D412, ISO 188Change in Ultimate Elongation in Air (150°C, 168 hr)-25%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A, 150°C, 168 hr)3.0ISO 188ISO 188Change in Mass3.0SASTM D412, ISO 188Change in Mass3.0%ASTM D47125°C, 168 hr, in 10% hydrochoric acid1.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D471PremalNominal ValueVitiTest MethodAdditional InformationNominal ValueISO 812V Resistance - 1000hrFTest MethodInjectionNominal ValueVitiDrying Temperature85.0°CDrying Timp3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CMiddle Temperature200 - 220°C	Aging	Nominal Value	Unit	Test Method
Change in Ultimate Elongation in Air (150°C, 168 hr)-25%ASTM D412, ISO 188Change in Shore Hardness in Air (Shore A 150°C, 168 hr)3.0ISO 188Change in Mass-STM D471Change in Mass1.0%ASTM D47125°C, 168 hr, in 10% hydrochloric acid 25°C, 168 hr, in 50% sodium hydroxide1.0%ASTM D471ThermalNominal ValueUnitTest MethodBrittleness Temperature (Type B)-56.0°CISO 812Additional InformationNominal ValueTest MethodUV Resistance - 1000hrVinitSAE J1960InjectionNominal ValueUnitDrying Temperature85.0°CDrying Temperature3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200 - 220°CVacue200 - 220°C				
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150°C, 168 hr)3.0ISO 188Change in MassASTM D47125°C, 168 hr, in 10% hydrochloric acid1.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D471ThermalNominal ValueUnitTest MethodBrittleness Temperature (Type B)-56.0°CISO 812Additional InformationNominal ValueTest MethodUV Resistance - 1000hrNominal ValueTest MethodUv Resistance - 1000hrNominal ValueUnitDrying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200 - 220°CNominal Value°C		-25	%	ASTM D412, ISO 188
25°C, 168 hr, in 10% hydrochloric acid1.0%ASTM D47125°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D471ThermalNominal ValueUnitTest MethodBrittleness Temperature (Type B)-56.0°CISO 812Additional InformationNominal ValueTest MethodUV Resistance - 1000hrNominal ValueSAE J1960UV Resistance - 1000hrNominal ValueUnitDrying Temperature85.0°CDrying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200 - 220°C	5	3.0		ISO 188
25°C, 168 hr, in 50% sodium hydroxide0.0%ASTM D471ThermalNominal ValueUnitTest MethodBrittleness Temperature (Type B)-56.0°CISO 812Additional InformationNominal ValueTest MethodUV Resistance - 1000hrVSAE J1960InjectionNominal ValueUnitDrying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature80.200°CFront Temperature200°CNozze Temperature200 - 220°C	Change in Mass			ASTM D471
ThermalNominal ValueUnitTest MethodBrittleness Temperature (Type B)-56.0°CISO 812Additional InformationNominal ValueTest MethodUV Resistance - 1000hrSAE J1960InjectionNominal ValueUnitDrying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature200°CFont Temperature200°CNozze Temperature200 - 220°C	25°C, 168 hr, in 10% hydrochloric acid	1.0	%	ASTM D471
Brittleness Temperature (Type B)-56.0°CISO 812Additional InformationNominal ValueTest MethodUV Resistance - 1000hrSAE J1960InjectionNominal ValueUnitDrying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature200°CFront Temperature200 - 220°C	25°C, 168 hr, in 50% sodium hydroxide	0.0	%	ASTM D471
Additional InformationNominal ValueTest MethodUV Resistance - 1000hrSAE J1960InjectionNominal ValueUnitDrying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200 - 220°C	Thermal	Nominal Value	Unit	Test Method
SAE J1960 Injection Nominal Value Unit Drying Temperature 85.0 °C Drying Time 3.0 hr Rear Temperature 160 - 180 °C Middle Temperature 180 - 200 °C Front Temperature 200 °C Nozzle Temperature 200 - 220 °C	Brittleness Temperature (Type B)	-56.0	°C	ISO 812
InjectionNominal ValueUnitDrying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200°CNozzle Temperature200 - 220°C	Additional Information	Nominal Value		Test Method
Drying Temperature85.0°CDrying Time3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200°CNozzle Temperature200 - 220°C	UV Resistance - 1000hr			SAE J1960
Drying Time3.0hrRear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200°CNozzle Temperature200 - 220°C	Injection	Nominal Value	Unit	
Rear Temperature160 - 180°CMiddle Temperature180 - 200°CFront Temperature200°CNozzle Temperature200 - 220°C	Drying Temperature	85.0	°C	
Middle Temperature180 - 200°CFront Temperature200°CNozzle Temperature200 - 220°C	Drying Time	3.0	hr	
Front Temperature200°CNozzle Temperature200 - 220°C	Rear Temperature	160 - 180	°C	
Nozzle Temperature 200 - 220 °C	Middle Temperature	180 - 200	°C	
·	Front Temperature	200	°C	
Processing (Melt) Temp 190 - 230 °C	Nozzle Temperature	200 - 220	°C	
	Processing (Melt) Temp	190 - 230	°C	

Mold Temperature	10.0 - 60.0	°C		
Injection Rate	Fast			
Injection instructions				
Cooling Time: 20-30 sec / 100-175g				
Extrusion	Nominal Value	Unit		
Drying Temperature	85.0	°C		
Drying Time	3.0	hr		
Hopper Temperature	160 - 170	°C		
Cylinder Zone 1 Temp.	180 - 200	°		
Cylinder Zone 2 Temp.	180 - 200	°		
Cylinder Zone 3 Temp.	180 - 200	°		
Adapter Temperature	200	°C		
Melt Temperature	190 - 230	°		
Die Temperature	180 - 210	°		
Back Pressure	5.00 - 20.0	MPa		
Extrusion instructions				
Screen Pack: 20-60 mesh				
NOTE				
1.	Туре а			

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