Innoprene 1550N/B

Thermoplastic Vulcanizate

Kumho Polychem Co., Ltd.

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Technical Data

Product Description

Innoprene 1550N/B is a Thermoplastic Vulcanizate (TPV) material. It is available in Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Innoprene 1550N/B are:

- Chemical Resistant
- Eco-Friendly/Green
- Fatigue Resistant
- Good Flexibility
- Heat Resistant

Typical applications include:

- Appliances
- Automotive
- Business/Office Goods
- Construction Applications
- Electrical/Electronic Applications

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet (English)		
Search for UL Yellow Card	• Kumho Polychem Co., Ltd.		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Chemical Resistant • Fatigue Resistant • Good Electrical Properties • Good Flexibility	• Good Tear Strength • Good Weather Resistance • High Heat Resistance • Low Compression Set	• Ozone Resistant • Recyclable Material
Uses	• Appliances • Automotive Applications • Building Materials	• Business Equipment • Electrical/Electronic Applications • Household Goods	• Industrial Applications • Sporting Goods
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity			
--	0.952		ASTM D297
77°F	0.950	g/cm³	ISO 1183

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Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain, 77°F)	284	psi	ASTM D412 ISO 37
Tensile Strength (Yield, 77°F)	853	psi	ASTM D412 ISO 37
Tensile Elongation (Break, 77°F)	620	%	ASTM D412 ISO 37
Tear Strength (77°F)	168	lbf/in	ASTM D624 ISO 34-1
Compression Set			
158°F, 22 hr	23	%	ASTM D395
248°F, 70 hr	43	%	ASTM D395
158°F, 22 hr [3]	23	%	ISO 815
248°F, 70 hr [3]	43	%	ISO 815

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 77°F)	55		ISO 868

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature (Type B)	-86.8	°F	ISO 812

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D412 ISO 188
302°F, 168 hr	-7.0	%	
Change in Ultimate Elongation in Air			ASTM D412 ISO 188
302°F, 168 hr	-10	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 302°F, 168 hr	1.0		
Change in Mass			ASTM D471
77°F, 168 hr, in Hydrochloric Acid, 10%	3.0	%	
77°F, 168 hr, in Sodium Hydroxide, 50%	1.0	%	

Additional Information	Nominal Value	Unit	Test Method
UV Resistance - 1000hr	<1.0	E	SAE J1960

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	3.0	hr
Rear Temperature	320 to 356	°F
Middle Temperature	356 to 392	°F
Front Temperature	392	°F
Nozzle Temperature	392 to 428	°F
Processing (Melt) Temp	374 to 446	°F
Mold Temperature	50 to 140	°F
Injection Rate	Fast	

Injection Notes
Cooling Time: 20-30 sec / 100-175g

Extrusion	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	3.0	hr
Hopper Temperature	320 to 338	°F
Cylinder Zone 1 Temp.	356 to 392	°F

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Extrusion	Nominal Value	Unit
Cylinder Zone 2 Temp.	356 to 392	°F
Cylinder Zone 3 Temp.	356 to 392	°F
Adapter Temperature	392	°F
Melt Temperature	374 to 446	°F
Die Temperature	356 to 410	°F
Back Pressure	725 to 2900	psi

Extrusion Notes
Screen Pack: 20-60 mesh

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] Type A

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