

Ascend Sealing Technology Compound: C10170BL

Ascend Sealing has developed chloroprene rubber (CR) to be the most cost-effective compound, without sacrificing performance for general usage. CR is one of the most popular material for sealing application. We specially formulated C10170BL for good resistance to common chemicals and oils, with ideal mechanical properties. As for general purpose, CR is a sulfur-cured compound with good physical toughness and resistance to fire.

Service Temperature: 40°F to 212°F (-40°C to 100°C)

Ascend Sealing provides a wide range of chloroprene rubbers. For additional technical support, please contact us at customer_service@ascendsealing.com.

Compatible

- Water
- Ammonia
- Silicone grease and oils
- Refrigerants
- High aniline point mineral oil

Incompatible

- Ethers
- Esters
- Ketones
- Chlorinated hydrocarbons
- Aromatic hydrocarbons
- Strong oxidizing acids

Physical Properties

MATERIAL :	NEOPRENE
COMPOUND :	C10170BL
	ASTM D2000 M3BC710 A14 B14 EO14 EO34
SPEC. :	F17
COLOR :	BLACK

	<u>Original Physical Properties</u>	<u>Requirements</u>	<u>Results</u>
	Hardness, (Shore A) (ASTM D2240-15)	70±5	71
	Tensile Strength, psi(MPa) (ASTM D412-15a)	1450(10)(min)	2551(17.59)
	Elongation, (%) (ASTM D412-15a)	250(min)	266
	Modulus at 100%%, psi(MPa) (ASTM D412-15a)		798(5.5)
	Specific Gravity, (g/cm ³)		1.38
<u>A14</u>	<u>Heat age, 70 Hrs @ 100 °C (ASTM D573-04)</u>		
	Hardness Change, pts.	+15(max)	+11
	Tensile Strength Change, %	-15(max)	-5
	Elongation Change, %	-40(max)	-16
	Weight Change, %		-4.4
<u>B14</u>	<u>Compression set, 22 Hrs @ 100 °C (ASTM D395-16, Method B)</u>	35%(button)(max)	19.6
<u>EO14</u>	<u>IRM 901 Oil, 70 Hrs @ 100 °C (ASTM D471-16a)</u>		
	Hardness Change, pts.	±10	+2
	Tensile Strength Change, %	-30(max)	-7
	Elongation Change, %	-30(max)	-21
	Volume Change, %	-10~+15	-2.6
<u>EO34</u>	<u>IRM 903 Oil, 70 小時(Hrs) @ 100 °C (ASTM D471-16a)</u>		
	Hardness Change, pts.		-19
	Tensile Strength Change, %	-60(max)	-34
	Elongation Change, %	-50(max)	-40
	Volume Change, %	+100(max)	+43.1
<u>F17</u>	<u>Low-Temperature Brittleness Point Test, 3 min at -40 °C (ASTM D2137-05, Method A)</u>		
	Sample type: T-50		
	Coolant : Isopropyl alcohol		
	Brittleness temperature to nearest 1°C	no crack	pass



Statement and recommendation provided in this data sheet correspond to Ascend Sealing Technology's best knowledge on the subject at the date of its publication. The user should conduct their own analysis and testing and is solely responsible for making the final selection of the system and component. Since Ascend Sealing Technology cannot anticipate all the application parameters in actual conditions, we do not guarantee the results and assume no liability in connection with any use of this information.

