



CHIAO YING RUBBER CO., LTD.

Address: No.11, Lane 99, Sec.3, Jiauan Rd., Shulin City, Taipei County 238, Taiwan (R.O.C.)

TEL:886-2-26803570 FAX:886-2-26801905

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<http://www.chiaoyingrubber.com>

⊙Excellent ⊖Good △Fair
 ✕Poor

Rubber Material	NR Natural Rubber	IR Polyisoprene Rubber	SBR Styrene butadiene Rubber	BR Polbutadiene Rubber	CR Polychloroprene Rubber	IIR Butyl Rubber	NBR Nitrile Rubber	
Main Properties	Excellent abrasion resistance.	Same as NR's properties.	Better Age resistance compare w/ NR.	Excellent abrasion resistance and elasticity.	Weathering, Ozone/ heat/ chemical resistance	Weathering/ solvent resistanc,low gas permeability rate	Excellent oil & abrasion resistance	
Normal Condition Test	Specific Gravity	0.92	0.92	0.93	0.92	1.2	0.92	1.1
	Mooney Viscosity ML 1+4	90~150	55~90	30~100	35~55	45~120	45~75	30~100
	Hardness	10~100°	20~100°	30~100°	30~100°	10~90°	20~90°	15~100°
	Tensile Strength (Kgf/cm2)	30~300	30~200	50~200	20~200	50~250	50~150	50~200
	Elongation (%)	600~100	600~100	500~100	500~100	500~100	500~100	500~100
	Rebound Resilience	⊙	⊙	⊖	⊙	⊙	△	⊖
	Tear Strength	⊙	⊖	△	⊖	⊖	⊖	⊖
	Abrasion-Resistance	⊙	⊙	⊙	⊙	⊖~⊙	⊖	⊙
	Flex Resistance	⊙	⊙	⊖	△	⊖	⊙	⊖
	Service Temp Deg. (°C)	-75~90	-75~90	-60~100	-100~100	-60~120	-60~150	-50~120
	Aging Resistance	⊖	⊖	⊖	⊖	⊙	⊙	⊙
	Sunlight Resistance	⊖	⊖	⊖	⊖	⊙	⊙	⊖
	Ozone Resistance	✕	✕	✕	✕	⊙	⊙	✕
	Flame Resistance	✕	✕	✕	✕	⊖	✕	✕
	Electric volume resistivity (Ω.cm)	10 ¹⁰ ~ 10 ¹⁵	10 ¹⁰ ~ 10 ¹⁵	10 ¹⁰ ~ 10 ¹⁵	10 ¹⁴ ~ 10 ¹⁵	10 ¹⁰ ~ 10 ¹²	10 ¹⁵ ~ 10 ¹⁸	10 ¹⁵ ~ 10 ¹⁸
	Gas permeability resist	⊖	⊖	△	✕	⊖	⊙	⊖
	Radiation resistance	△~⊖	△~⊖	⊖	✕	△~⊖	✕	△~⊖
Oil / Solvent Resistance	Gasoline	✕	✕	✕	✕	⊖	✕	⊙
	Benzene/Toluene	✕	✕	✕	✕	✕	△~⊖	✕~△
	Trichlene	✕	✕	✕	✕	✕	✕	✕
	Alcohol	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	Ether	✕	✕	✕	✕	✕~△	△~⊖	✕~△
	Ketone (MEK)	△~⊖	△~⊖	△~⊖	△~⊖	△~⊖	⊙	✕
	Ethyl Acetate	✕~△	✕~△	✕~△	✕~△	✕	⊙	✕~△
Acid / Alkali Resistance	Water	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	Organic Acid	✕	✕	✕	✕	✕~△	△~⊖	✕~△
	Strong Acid	△	△		△	⊖	⊙	⊖
	Light Acid	⊖	⊖	⊖	⊖	⊙	⊙	⊖
	Strong Alkali	⊖	⊖	⊖	⊖	⊙	⊙	⊖
Light Alkali	⊖	⊖	⊖	⊖	⊙	⊙	⊖	
Main Usage	Tires, air springs, soles, tubes, conveying belt, and industrial products.	Tires, air springs, soles, tubes, conveying belt, and industrial products.	Tires, soles, conveying belt, tubes, and industrial products.	Tires, soles, abrasion resisting rubber roller, rubber sheets and industrial products.	Cable covering, tubes, damper, adhesive agent, window seals, and industrial products.	Tires, cable covering, heat resistant, conveying belt.	Seals, O-rings, packings, printing rollers, oil resistance rubber hose.	



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Rubber Material	EPDM Ethylene propylene Rubber	CSM Hypalon. Polyethylene	ACM Polyacrylate Rubber	PU Polyurethane Rubber	SI Silicone Rubber	FKM Fluoro Carbon Rubber	
Main Properties	Good age/ozone resistance, excellent electrical properties	Excellent age/ozone/chemical/weathering resistance	Good high temperature oil resistance.	Excellent abrasion-resistance, elasticity, excellent mechanical properties	Excellent heat/ cold resistance and chemical stability.	Excellent heat/ chemical resistance.	
Normal Condition Test	Specific Gravity	0.86	1.2	1.1	1.2	1.0	1.8
	Mooney Viscosity ML1+4	50~150	30~60	45~60	30~60	20~50	60~180
	Hardness	10~90°	50~90°	40~90°	60~90°	30~90°	50~90°
	Tensile Strength (Kg/cm ²)	50~200	70~200	70~120	100~300	40~120	70~200
	Elongation (%)	800~100	500~100	600~100	500~200	500~100	500~100
	Rebound Resilience	○	○	△	⊙	⊙	△
	Tear Strength	△	○	△	⊙	✕~△	○
	Abrasion-Resistance	○	⊙	○	⊙	✕~△	⊙
	Flex Resistance	○	○	○	⊙	✕~○	○
	Service Temp Deg. (°C)	-60~140	-60~150	-30~180	-60~80	-120~280	-50~300
	Aging Resistance	⊙	⊙	⊙	○	⊙	⊙
	Sunlight Resistance	⊙	⊙	⊙	⊙	⊙	⊙
	Ozone Resistance	⊙	⊙	⊙	⊙	⊙	⊙
	Flame Resistance	✕	⊙	✕	✕	○	⊙
	Electric volume resistivity (Ω.cm)	^{12 16} 10 ~10	^{12 14} 10 ~10	^{8 10} 10 ~10	^{8 12} 10 ~10	^{11 16} 10 ~10	^{10 14} 10 ~10
	Gas permeability resist	○	○	○	○	✕	○
	Radiation resistance	✕	△~○	✕~○	○	△~⊙	△~○
Oil / Solvent Resistance	Gasoline	✕	△	⊙	⊙	✕~△	⊙
	Benzene/Toluene	△	✕~△	✕	✕~△	✕~△	⊙
	Trichlene	✕	✕~△	✕	△~○	✕~△	○
	Alcohol	⊙	⊙	✕	△	⊙	⊙
	Ether	○	✕	✕	✕	✕~△	✕~△
	Ketone (MEK)	⊙	△~○	✕	✕	○	✕
	Ethyl Acetate	⊙	✕	✕	△~○	△	✕
Acid / Alkali Resistance	Water	⊙	⊙	△	△	○	⊙
	Organic Acid	✕	△	✕	✕	○	✕
	Strong Acid	○	⊙	△	✕	△	⊙
	Light Acid	⊙	⊙	○	△	○	⊙
	Strong Alkali	⊙	⊙	△	✕	⊙	✕
Light Alkali	⊙	⊙	○	✕	⊙	△	
Main Usage	Window seals, cable covering, steam hose.	Weathering/corrosion resist coating, rubber fabrics, box linings.	Rubber pads, Seals in auto Gearbox system, crank axle seal.	Rollers, tubes.	Heat/cold resistance O-rings, gaskets, rollers, damper etc.	Heat/oil/chemical resistance O-rings, pads, tubes...etc. for aircraft/Military/Chemical plant usage.	