

# NANCAR® 4580

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

## Message:

NANCAR® 4580 is a high acrylonitrile butadiene copolymer with excellent oil resistance. It is polymerized at low temperature and contains sufficient antioxidant for normal aging conditions. It has fast curing rate, low mold fouling and superior resilience properties. It has good processing characteristics in compounds where flow and knitting are desired and is especially valuable in high durometer compounds.

NANCAR® 4580 provides good processing and building tack. It is suggested for use in molded goods, friction stock and similar applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Good Flow		
	Good Moldability		
	Good Processability		
	Oil Resistant		
	Resilient		
	Vapor Phase Curable		
Uses	Molds/Dies/Tools		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00	g/cm <sup>3</sup>	
Mooney Viscosity			ASTM D1646
ML 1+4, 100°C <sup>1</sup>	90	MU	
ML 1+4, 100°C	80	MU	
Acrylonitrile Content - Bound	44.5	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Heat Loss	0.30	%	ASTM D5688
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec <sup>2</sup>	77		
Shore A, 5 sec <sup>3</sup>	76		
Shore A, 5 sec <sup>4</sup>	75		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
300% Strain <sup>5</sup>	16.0	MPa	
300% Strain <sup>6</sup>	14.8	MPa	
300% Strain <sup>7</sup>	12.2	MPa	

Tensile Strength			ASTM D412
Yield <sup>8</sup>	28.0	MPa	
Yield <sup>9</sup>	26.5	MPa	
Yield <sup>10</sup>	27.7	MPa	
Tensile Elongation			ASTM D412
Break <sup>11</sup>	450	%	
Break <sup>12</sup>	460	%	
Break <sup>13</sup>	540	%	
Tear Strength	60.0	kN/m	ASTM D624
NOTE			

1.	Uncured
2.	CURED @150°C for 60 mins
3.	CURED @150°C for 40 mins
4.	CURED @150°C for 20 mins
5.	CURED @150°C for 60 mins
6.	CURED @150°C for 40 mins
7.	CURED @150°C for 20 mins
8.	CURED @150°C for 60 mins
9.	CURED @150°C for 40 mins
10.	CURED @150°C for 20 mins
11.	CURED @150°C for 60 mins
12.	CURED @150°C for 40 mins
13.	CURED @150°C for 20 mins

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

