





TYPICAL PROPERTIES

COMPOUND NUMBER: 173B (NBR)

Service Temperature Range: -30°F to 300°F (-34°C to 149°C)
 Color: Black

DESCRIPTION	ASTM METHOD	UNITS	TYPICAL
A. ORIGINAL PROPERTIES			
Specific Gravity	D792	—	1.22
Hardness, Type A	D2240	Points	75
Tensile Strength	D412	psi [MPa]	2589 [17.9]
Elongation	D412	%	311
Modulus @ 100% Elongation	D412	psi [MPa]	764 [5.3]
TR 10/50	D1329	°F [°C]	-11 [-24]
B. AIR AGING			
70 Hrs. @ 212°F [100°C]	Hardness Change	D573	— +2
	Tensile Change	D573	% +4
	Elongation Change	D573	% -21
C. FLUID AGING			
1. 70 Hrs. @ 212°F [100°C], in IRM-901	Hardness Change, Points	D471	— 0
	Tensile Change	D471	% +5
	Elongation Change	D471	% -15
	Volume Change	D471	% 0
2. 70 Hrs. @ 212°F [100°C], in IRM-903	Hardness Change, Points	D471	— -6
	Tensile Change	D471	% -5
	Elongation Change	D471	% -9
	Volume Change	D471	% +15
3. 168 Hrs. @ 158°F [70°C], in Mobilgear 600 XP 150	Hardness Change, Points	D471	— -3
	Tensile Change	D471	% -9
	Elongation Change	D471	% -29
	Volume Change	D471	% +2
4. 168 Hrs. @ 158°F [70°C], in Mobilgear SHC 629	Hardness Change, Points	D471	— -5
	Tensile Change	D471	% -7
	Elongation Change	D471	% -14
	Volume Change	D471	% +5

WRITTEN BY MATERIAL TESTING, ENGINEERING, & COMPLIANCE 	FOR REFERENCE ONLY NOT FOR SPECIFICATION	DOCUMENT NO. TP-173B REVISION — ECN GTC-13531
CHECKED BY APPLICATIONS ENGINEERING 	DATE WRITTEN 4/26/2024	DATE REVISED 4/26/2024 (Released on 5/8/2024)
		SHEET 1 of 2

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end-product performance. Full scale testing and end-product performance are the responsibility of the user.



DESCRIPTION	ASTM METHOD	UNITS	TYPICAL
D. COMPRESSION SET @ 25% DEFLECTION			
1. 22 Hrs. @ 212°F [100°C], in Air, % of Original Deflection	D395	%	7
2. 70 Hrs. @ 275°F [135°C], in Air, % of Original Deflection	D395	%	28
Z. NOTES			
Unless otherwise noted, all tests performed on ASTM Slabs and Buttons.			

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	DOCUMENT NO. TP-173B	SHEET 2 of 2	REVISION —
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