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USA

ATTENTION: Marty Migliori
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Smithers Job # F42453JER-005JK

SUBJECT: TEST REPORT
The above mentioned firm submitted (1) sample for testing identified as

- SSP220VGRAY Batch#KC015

TESTING: Shore A Hardness ASTM D2240
Properties in Tension for Vulcanized Rubber and Thermoplastic Elastomers
ASTM D412
Specific Gravity ASTM D792
Compression Set ASTM D395
Heat Resistance ASTM D573
Low Temperature Brittlepoint ASTM D2137
Effects of Fluids ASTM D471



APPROVED BY:
Amanda Cool
Physical Testing Technician
Smithers Rapra, Inc.
Akron Laboratories

AC/eec

Smithers is a GE S-450 approved lab.



REVIEWED BY:
Jeff Marek
Quality Coordinator
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Summary of Results to Specification A-A 59588B Class 2A &2B Grade 40

| Spec Ref. | Test | Units | SSP220VGRAY Batch#KC015 | Requirements | Comment |
|------------|---|-------|----------------------------|--------------|---------|
| ASTM D2240 | Shore A Hardness | pts | 43 | 40±5 | Pass |
| ASTM D412 | Tensile Strength | MPa | 7.15 | 4.83 min | Pass |
| | Ultimate Elongation | % | 557 | 240 min | Pass |
| ASTM D297 | Specific Gravity/Density | g/cc | 1.106 | Info | Info |
| ASTM D395 | Compression Set, Method B 70 hours at 150°C | | | | |
| | 2A | % | 12 | 35 max | Pass |
| | 2B | % | 12 | 25 max | Pass |
| ASTM D573 | Aging, Circulating Air Oven 70 hours at 225°C | | | | |
| | Change in Hardness, Shore A | pts | -4 | ±10 | Pass |
| | Change in Tensile Strength | % | -15 | -20 max | Pass |
| | Change in Ultimate Elongation | % | +10 | -40 max | Pass |
| ASTM D2137 | Low Temperature Brittleness 3 minutes at -62.2°C | p/f | pass | pass | Pass |
| ASTM D471 | Aging, Fluid Immersion 70 hours at 100°C, Water | | | | |
| | Change in Volume | % | +3 | +10 max | Pass |

SUMMARY OF TEST CONDITIONS**PHYSICAL TESTING:****Shore A Hardness ASTM D2240**

Date of testing: 4/5/19

Laboratory conditions: 23° ± 2°C, 50% ± 5% RH

Durometer manufacturer, Type, and Serial Number: Shore Instruments, S/N 122904

Date of Last calibration: 2/19

Calibration due date: 2/20

Means of testing: Type 2

Description of test specimen: Plyed/6 mm nom

Indentation hardness time interval: 1 sec

Properties in Tension for Vulcanized Rubber and Thermoplastic Elastomers ASTM D412

Test method: A

Test specimen: Die C

Date of testing: 4/5/19

Rate of extension: 20"/min

Laboratory conditions: 23° ± 2°C, 50% ± 5% RH

Sample preparation per ASTM D3182

Specific Gravity ASTM D792

Test Method: Hydrostatic Method

Weigh Medium: Distilled Water

Temperature of Medium: 23°C

Date of testing: 4/1/19

Compression Set ASTM D395

Test method: B

Specimen type: Plyed, Type 1

Test period: 70 hours

Test temperature: 150°C

Surface lubrication: Dry PTFE

Start date: 4/1/19

Finish date: 4/4/19

Heat Resistance ASTM D573

Test method: A

Date samples in: 4/1/19

Date samples out: 4/4/19

Date of testing: 4/5/19

Laboratory conditions: 23° ± 2° C, 50 ± 5% RH

Low Temperature Brittlepoint ASTM D2137

Date of testing: 4/3/19

Specimen type: Modified T-50

Nominal thickness: 0.073"

Number of specimens: 5/ Impact

Test method: C

Heat-transfer medium: Ethyl Alcohol C200

Specimen conditioning: >16h @ STH, 3 min. @ test temperature

Effects of Fluids ASTM D471

Test description: Change in volume

Date samples in: 4/1/19

Date samples out: 4/4/19