CRT LABORATORIES, INC.
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ASTM Physical & Mechanical • Chemical-Thermal Analysis • IAPMO Cell Class
Geosynthetic Materials • Plumbing & Faucet Assemblies • Resin & Finished Product Testing

ANAB ACCREDITED ISO/IEC 17025 ANSI/NCSL Z540-I
ISO 9001 IAPMO R&T Certification No. ISO-09-23-12-11019

TEST REPORT

FOR: Everkem Diversified Products
5180 Indiana Avenue
Winston-Salem, NC 27106
Tel: (800) 638-3160 / Fax: (336) 661-7969
ATTN: Mr. Jason C. Lynch

LWR NO.: 21910 DATE: Oct. 09, 2023

BACKGROUND: The client submitted one (1) sample of Everkem Gel-Wire Lubricant for testing. The sample arrived on 09/20/2023 via customer-supplied courier. Visual inspection was performed on 09/20/2023 and no product defects were noted. Testing in accordance with customer-supplied P.O. #092023-JL1 received on 09/20/2023. The following additional information is provided:

CRT order entry log date: 09/20/2023 / **Report due date:** 10/09/2023

SAMPLE ID: EVERCHEM Yellow EZ Pull Wiring Pulling Lubricant Gel

TEST MATERIAL: ExxonMobil LL8460 Linear-low-density Polyethylene (LLDPE) Polymer

PREPARATION: **Conditioning** – ASTM D618-21, 40 h in a standard laboratory environment
2-Roll Milling / Compression Molding – CRT methods / ASTM D4703-16
Machining & Preparation – CRT Methods

TEST PROCEDURES: ASTM D1693-21 *Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics (Condition A using client solution)*
Exposure condition – Condition-A, 48h @ 50°C with 100% testing solution.
Extended conditions - 150h @ 50°C with 100% testing solution.

TEST RESULTS: Test results are reported in table one (1), attached. In summary, all ten (10) specimens surpassed the 150h condition exposure without evidence of cracking, splitting and/or crazing.

CONCLUSION: No conformance data was submitted for the modified version of this method. Therefore, the observations recorded are for customer information only.

Specimen Retain Bin: BB (30-day hold, unless otherwise specified)

Signed on behalf of:

CRT LABORATORIES, INC.

IAPMO R&T ANAB ISO 9001:15 Certified – Registered / ISO/IEC 17025:17 Recognized Co.

Ken A. Le Jeune
CEO / Laboratory Director

Raul Gonzalez
Senior Laboratory Technician

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TABLE 1

Sample ID: EVERCHEM Yellow EZ Pull Wiring Pulling Lubricant Gel, exposed to ExxonMobil LL8460 Linear-low-density Polyethylene (LLDPE) Polymer

ASTM D1693-21 ENVIRONMENTAL STRESS CRACKING RESISTANCE (E.S.C.R.)

Ten (10) specimens were prepared and machined with a 0.125″ thickness. The specimens were slit using the nicking jig and blade described in this test method. Specimens were stressed by bending each and dropping into their respective holing jig. The specimen holder was put into a large test tube assembly containing clients' EVERCHEM Yellow EZ Pull Wiring Pulling Lubricant Gel. The test assembly, including a large test tube of the test solution was placed in a 50°C temperature bath and exposed in 100% concentration for a period of 48h. The specimens were inspected daily. Upon completion, each specimen was wiped clean and visually inspected for any cracking, splitting, or other defects. The following observations were noted.

Material	Specimens Tested	Specimens Pass	Specimens Fail	Test Duration	Observations
LLDPE	10	10	0	48h	All specimens pass 48h @ 50°C with 100% testing solution

None (0) specimens were affected, and no evidence of degradation was noted....***Complies***

ASTM D1693-21 ENVIRONMENTAL STRESS CRACKING RESISTANCE (E.S.C.R.) Extended

Upon completion of phase-48h, the test assembly was extended to 150h exposure in a 50°C temperature bath and exposed in 100% concentration. The specimens were inspected daily and notes taken on condition. Upon completion, each specimen was wiped clean and visually inspected for any cracking, splitting, or other defects. The following observations were noted.

Material	Specimens Tested	Specimens Pass	Specimens Fail	Test Duration	Observations
LLDPE	10	10	0	150h	All specimens pass 150h @ 50°C with 100% testing solution

None (0) specimens were affected, and no evidence of degradation was noted....***for client information***