



ISO • ASTM • NFPA • FAA-DOT-FAR

YOUR POLYMERS LABORATORY

RESEARCH & DEVELOPMENT, TESTING, EVALUATION, EXPERTISE

CTT Group is a service center dedicated to polymers performance evaluation, compliance to specifications and durability evaluation.



WEATHERING AND AGING

- Heat aging ASTM D3045, D573, D572
 Salt spray
- ASTM B117
- Stress-cracking ASTM D1693, D5397, F2136
- UV Exposure Fluorescent UV ASTM G154, D4329, D4587
- UV exposure Xenon arc ASTM G155, D2565, D4459, D6695
- UV exposure using carbon arc ASTM G153
- Chemical immersion ASTM D5322, EN 14414, EN 14030
- Creep resistance
 ASTM D2990, D6992, D7361,
 EN ISO 3431, ISO TR 20432
- Soil burial ASTM G160, EN 12225
- Thermal cycling ASTM D2126, D7615



MECHANICAL PROPERTIES

- Abrasion resistance Taber ASTM D4060, D1044
- Abrasion resistance Coatings ASTM D6279
- Compressive properties Rubber ASTM D575
- Compressive properties Plastics ASTM D695
- Compression set Rubber ASTM D395, D1229
- Flexural properties Insulation ASTM C203
- Flexural properties Plastics ASTM D790
- Flexural properties composites ASTM D4476, D4476M, D 2344, D 2344M
- Impact resistance Izod ASTM D256
- Impact resistance Plastic sheet ASTM D5420, D4226, D3763



- Impact resistance Plastic film ASTMD1709, D7192
- Puncture resistance ASTM D5748, F1306, FFTMS 101C-2065.1
- Static and kinetic coefficients of friction ASTM D1894
- Tear resistance Propagation tear ASTM D1922
- Tear resistance Trouser ASTM D1938
- Tear resistance Grave ASTM D624, D1004



YOUR POLYMERS LABORATORY

RESEARCH & DEVELOPMENT, TESTING, EVALUATION, EXPERTISE

CTT Group is a service center dedicated to polymers performance evaluation, compliance to specifications and durability evaluation.



PERMEANCE TESTING

- Water vapour transmission ASTM F1249, E96, E96M
- Oxygen gas transmission rate ASTM D3985
- Hydrocarbon transmission rate ASTM D814
- Gas permeability (Methane, CO2) ASTM D1434

THERMAL ANALYSIS

- Coefficient of thermal expansion ASTM E831, D696
- Composition analysis TGA
 ASTM E1131
- Glass transition temperature DSC ASTM E1356, D7426, E2602
- Melt/ Crystallisation characteristics ASTM E794, E793, D3418
- Oxidative induction time DSC ASTM E3895, D5885
- Thermal stability TGA ASTM E2550

CHEMICAL

- Chemical exposure
- Permeation durability to challenge chemicals
- Toxicity
- VOCs Analysis

VOCs Analysis

CTT Group is accredited for ISO/IEC 17025, GAI-LAP & Transport Canada.

SPECIALIZED EQUIPMENT

- HPLC-MS
- GC-MS
- HS-GC-MS
- TD-GC-MS
- FT-IR

OPTICAL PROPERTIES

- Color, yellowness, whiteness ASTM E308, ASTM E313, ASTM D2244, AATCC EP 9
- Gloss
- ASTM D523 / D2457
- Haze & transparency ASTM D1003, ASTM D1044
- Solar energy transmittance and reflectance
 ASTM E424, ASTM E903, ASHRAE 74
- Reflectance ASTM E1477

SURFACE PROPERTIES

- Wetting tension ASTM D2578
- Resistance of organic coatings ASTM D2794
- Adhesion of coatings by tape test ASTM D3359

 Evaluation of paints ASTM D1654-08, ASTM D661, ASTM D714, ASTM D772

TEAM TEXTILE CANADA GROUPE CTT

ISO • ASTM • NFPA • FAA-DOT-FAR

- Surface tension of solid coatings ASTM D7490-08
- Contact angle of polymer film ISO15989:2008, ASTM D 5946
- Hydrophobic contamination on glass ASTM C813 - 90 (2014)

PHYSICAL PROPERTIES

- Ash content
- ASTM D5630, D2584
- Carbon black content ASTM D1603, D4218, ISO/6964
 Density
- ASTM D792 , ISO 1183
- Hardness ASTM D2240, ISO 868, ASTM D2583
- Melt flow index ASTM D1238, ISO 1133
 Water absorption
- ASTM D 570, D2842



