



HallGreen® R-8010 | Hallstar Industrial

HallGreen® R-8010

Common Name: RENEWABLE ESTER

Product Code: H052

Brand: HallGreen®

HallGreen® esters are designed for use in a variety of products anywhere a manufacturer wants to eliminate or reduce the use of hazardous raw materials. HallGreen® R-8010 is compatible in many new biopolymers, such as PLA, Thermoplastic Starch and environmentally friendly polyesters. HallGreen® R-8010 is a 99% USDA Bio certified polymeric ester, which imparts excellent flexibility and low temperature properties to PLA compounds without migration. HallGreen® R-8010 completely biodegrades within 42 days in accordance with ASTM D5271 and ISO 14851 and therefore be regarded as completely biodegradable under aerobic conditions as stated in ASTM D6400 and EN 13432 / ISO 17088.

Acid Value, mg KOH / g	0.55
Appearance	clear
Color, Gardner	2
Moisture, %	0.02
Refractive Index, 25°C	1.465
Specific Gravity, 25°C	1.176
Packaging	55 gallon drum - 420lbs 5 gallon pail - 40lbs Tote - 2250lbs Bulk - --lbs

PLA

Additive level, phr	40.0
Tensile Strength, psi	5400

CPE

Additive level, phr	30.0
Melt Torque, mg	5

Elongation at Break, %	63
Shore D Hardness	66
Tg, °C	32.4

Melt Temperature, °C	175
Melt Flow - 210°C / 2.16 kg, g/10min.	48.4
Tensile Strength, MPa	25.6
Tensile Strength, psi	3715
Elongation at Break, %	7
Shore D Hardness	61
Tg, °C	-8.8
Gardner Impact, in lbf	14.64

Global Compliance:

- EU
 - USA
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Polymers:

- PHA
- PLA
- Starch

Applications:

- Commercial graphic film
- Film and sheeting for use in low temperatures
- Packaging

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