



The Association of
Plastic Recyclers



Meets Critical Guidance

The Association of Plastic Recyclers
2050 M Street NW
Washington, DC 20036
May 30, 2023

Mr. Brian Kinkopf,
Mitsubishi Chemical America, Inc., SoarnoL Division
12220 Strang Rd.,
La Porte, TX, 77571

Dear Mr. Kinkopf:

The Association of Plastic Recyclers (APR) is pleased to recognize Mitsubishi Chemical's SoarnoLTM EVOH (ethylene content of EVOH : ≥ 29 mol%) in multilayer PE films, without and with the addition of recycling agents as listed below:

1. PE / tie resin / EVOH composition with EVOH amount ≤ 10 wt%, tie resin amount $\geq 33\%$ of EVOH amount
2. The same composition as 1 with Soaresin™ RG500 or Soaresin™ RC600, Additive amount ≤ 3 wt% per 100 wt% of the composition

as meeting or exceeding the most strict APR PE Critical Guidance criteria FPE-CG-01 Critical Guidance Protocol for PE Film and Flexible Packaging. This APR recognition is based on the technical recyclability of the EVOH innovation (with or without additives), in the polyethylene film recycling stream.

A Review Committee, appointed per the APR Recognition Operating Procedures, reviewed your data submission and concluded the data were correctly obtained by a qualified laboratory and were completely presented to show the films submitted meet or exceed the most challenging test conditions and strictest APR Critical Guidance criteria.

The PE Film Critical Guidance documents that were used to evaluate the barrier innovation, are the product of a multi-industry consensus process to identify and address certain key technical considerations related to the recycling of postconsumer PE films. The Documents direct innovators to conduct specific testing per established testing procedures and then provide the innovator with guidance to interpret the results. The protocols are intended to help improve the quality of the recycled PE film stream by aiding innovators to make informed decisions about the consequences of packaging innovations. APR thanks Mitsubishi Chemical America, for voluntarily submitting this barrier material for Recognition. The impact of these protocols is beneficial to world-wide recycling efforts. Meeting the Critical Guidance Document is a truly significant step in demonstrating overall recyclability of your barrier material innovation.



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APR recognition applies only to the Mitsubishi Chemical's EVOH in multilayer PE films, without and with the addition of recycling agents. While this Recognition speaks to the compatibility of your innovation barrier material, with PE film recycling, it does not speak to collection of films or include other barrier materials in the market that may conflict with the PE film recycling process. We encourage Mitsubishi Chemical America to be sure in its packaging information that the public does not misunderstand that this Recognition applies to look-alike barrier films or to believe collection is happening when it is not.

Yours truly,

President and CEO