

Technical Data Sheet

RNG PET-HT™

Description

RNG PET-HT is an engineered EPS (Enhanced Polymeric Structure) resin for use in the manufacture of most high-clarity carrier PET products that are processed at temperatures up to 550°F (287°C).

RNG PET-HT is suitable for use in thermoforming, blow molding operations, film extrusion, injection and compression molding, melt spinning, and netting operations. May also be used with PA6 and PA66, and other polyamide copolymers, PC, styrenics, POM/acetal polymers, PMMA/acrylic.

RNG PET-HT is available in the U.S. and S.E. Asia. Its EPS properties are designed to produce designed to produce plastics compatible with disposal in EPA-regulated landfills. It's a versatile resin soluble in most PET and CPET polymers.

Applications

- Food containers
- Films
- Fibers
- Bottles
- Caps
- Netted bags

Materials

- Thermoformed sheets
- Blown and cast films
- Netting
- Spunbond materials

Regional availability

- North America (U.S., Canada, and Mexico)
- Southeast Asia

Representative properties

RNG PE-HT is a versatile EPS resin made for use in digital blenders.

Density	0.95 g/cm ³ (ASTM D7792)
Melt flow index	7g/10 min (190 °C/2.16 kg) (ASTM D1238)
Melt temperature range	97°C (ISO 11357-3)
Moisture	≤ 0.25% (ASTM D6980)

Key attributes

- FDA food-contact compliance (21 CFR 177.1340).
- Excellent homogeneous dispersion
- Negligible effect on optics or product performance

Processing, letdown

- RNG PET-HT is blended in at a 1/2% load **unless otherwise specified** to meet EPA requirements
- Polymer extrusion and converting requires no changes
- Co-extruded polymers – blend the equivalent of the required percentage of RNG PET-HT in each layer unless otherwise specified
- Maximum processing temperature is 550°F (287°C)
- Compatible with mined CaCO₃ (limestone)

Warnings

Do NOT use in plastics containing these products:

- Oyster and shellfish CaCO₃, coral, eggshells, bone meal
- Bio fillers, organic fibers, cellulose (paper laminates are OK)
- Oxo additives
- Silicones

RNG PET-HT**Product packaging**

RNG PET-HT is available in a unitized pallet of 25 kg (55 lbs.) bags or 800 kg (1764 lbs.) gaylords or super sacks.

Bags, gaylords, and sacks are sealed, moisture-resistant, and ready to use as supplied.

Storage and handling

RNG PET-HT should be stored indoors in the sealed container until used.

- Shelf life: 3 years from date of delivery.
- RNG PET-HT is thoroughly dried after production.
- If exposed to humid conditions for longer than one week, dry pellets by introducing warm dry air at no more than 95°C for 1-4 hours.
- If necessary, the estimated moisture content can be measured with an infrared moisture analyzer at 105°C for 10 minutes. The result from this test should be <0.25% moisture prior to processing.