



Sales Specifications of Polyethylene Naphthalate Copolymer (PENCo) (CAS 27289-84-5)

IVL's polyethylene naphthalate copolymers (PENCos) are a collection of specialty polyester copolymers of polyethylene naphthalate (PEN) and polyethylene terephthalate (PET) or some other polymer, such as polyamide (PA). The combination results in improved thermal, barrier (both diffusional and UV penetration), mechanical, and weathering properties with respect to standard PET. The composition of the copolymers are tailored in order to meet the optimized needs of the end use applications, which include packaging of beverages, pharma and cosmetic and other engineering resins. PENCos may be used in food contact articles under US FDA regulations, and their monomers are EU REACH registered.

Table 1: PENCo Product Sales Specifications

The specifications of PENCo, such as Intrinsic Viscosity¹, Melting Point and Color, will depend on the formulation of the PENCo product. Please contact your Indorama Ventures PCL (IVL) representative or view our product offerings online for additional information on PENCo specifications.

¹ Some PENCos are available at higher IV upon request.

Shipping and Handling Information

PENCo pellets are available in bulk 4-panel baffle polypropylene fabric bags containing 1000 kilograms. The bag dimensions are 38" x 38" x 45" (height) and has 4 corner lift loops. The bag also has a fabric top fill spout, 14" diameter x 19" long, and a fabric outlet spout with a star closure, 14" diameter x 19" long.

For an additional charge, PENCo is also available in other packaging, including fiber drums containing 100 kilograms. Drum dimensions are 22" diameter x 35" tall. Four drums may be shipped on a pallet with shrink-wrapping. A description of pallet loads is given in Table 2.

The product has been evaluated and does not require any hazard warning on the label under OSHA criteria. With regard to transportation, the DOT product shipping name is not regulated. PENCo's Harmonized System (HS) code is 3907.99. Under US Export Administration Regulations (EAR), PENCo is not on the Commerce Control List (CCL), thus is designated EAR99. Please contact your Indorama Ventures PCL (IVL) representative for any additional information on product shipping.

Table 2: Shipping Weights for PENCo

	Fabric Bag	Fiber Drums
Wt. per container, net	1000 kg (2205 lb)	100 kg (220.5 lb)
Containers per pallet	1	4
Wt. per pallet, net	1000 kg (2205 lb)	400 kg (881.8 lb)
Shipping wt. for freight rates	Actual weight	

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other considerations. The available product health safety information for PENCo is contained in the Safety Data Sheet (SDS) that may be obtained from your sales representative or by written request to the office address listed below. Before using any material a customer is advised to consult the SDS for the product under consideration for use.

For additional information, on samples, pricing and availability, please contact:

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