



Sales Specifications of Polytrimethylene Naphthalate (PTN) (CAS 28779-81-9)

IVL's polytrimethylene naphthalate (PTN) is a specialty polyester polymer derived from 1,3-propanediol plus either NDC or PNDA. It is structurally analogous to polytrimethylene terephthalate (PTT), but with improved thermal, barrier (both diffusional and UV penetration), mechanical, and weathering properties. Its fabricated products include high-performance fibers, filaments and engineered thermoplastics.

Shipping and Handling Information

PTN 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.

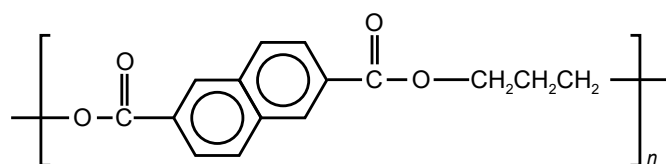
For an additional charge, PTN pellets are also available in fiber drums containing 100 kilograms. Drum dimensions are 22" diameter x 35" tall. Four drums may be shipped on a pallet with shrink-wrapping. A description of pallet loads is given in Table 2.

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. PTN's Harmonized System (HS) code is 3907.99. Under US Export Administration Regulations (EAR), PTN is not on the Commerce Control List (CCL), thus is designated EAR99. Contact your Indorama Ventures PCL (IVL) representative for any additional information on product shipping.

Table 1: Shipping Weights for PTN

	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	

Figure 1: Chemical Structure of PTN



PTN

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 PTN 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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