

PRODUCT DATA SHEET

FuTuRe-PET® 1125 resin from Indorama Ventures Polymers Mexico (IVPM) is a copolymer of Polyethylene terephthalate made with Polyclear® Refresh PET 1101 resin and 25 % post-consumer recycled (PCR). Resin of easy plasticization and low speed re-crystallization, that facilitates stretch blow molding process. Preforms made from this resin offer high performance for its quickly heating in infrared ovens (IR), which results in saving energy and high productivity.

Packaging made from FuTuRe-PET® 1125 has excellent color, clarity and dimensional stability that reduce shrinkage and deformation has been used for packaging for soft drinks, water bottles, foods, pharmaceutical, edible oil, liquor and household goods.

This PET resin complies with the Federal Food, Drug and Cosmetic Act for certain food applications. Please contact IVPM for specific FDA clearances. The containers made from PET resin from IVPM are lightweight, shatterproof, have excellent transparency, gloss and barrier properties. They are non-toxic, they can be pigmented in a wide range of colors, and have the great advantage of being fully recyclable.

Property	Unit	Target	Limits	Test Method
Intrinsic Viscosity *	dl/g	0.84	± 0.02	M2E-75-011**
Color b	UCE	-2.5	± 1.5	M2E-75-002**
Acetaldehyde Content	ppm	0.5	1.0 Max	M2E-75-007**
Cristallinity	%	53	50 Min	M2E-71-043**
Moisture Content	% wt	0.15	0.3 Max	M2E-72-010**
Fines	%	-	0.1 Max	M2E-75-008**
Density	g/ cm ³	1.398	1.394 Min	M2E-71-043**
Bulk Density	g/ cm ³	0.90	± 0.05	M2E-72-015**
Chip Size	No/g	80	± 5	M2E-75-004**
Melting Point	° C	240	± 8	M2E-73-002**
Yellow Chips	No/125 g	-	9 Max	M2E-75-014**

* Determined by conversion of solution viscosity to intrinsic viscosity using an empirical correlation developed by Indorama Ventures Polymers México.

** Internal Method

FuTuRe-PET® is a registered trademark of Alpha Pet Inc., a subsidiary of Indorama Ventures Public Company Limited
 Polyclear® is a registered trademark of Indorama Ventures Polymers, S. de R.L. de C.V., a subsidiary of Indorama Ventures Limited

This Product Data Sheet contains selected information about a specific IVPM product, or group of products, and particular uses of the same. It relates only to the identified product and any identified uses and is based on information available as of the date hereof. Additional information may be needed to evaluate other uses of the product, including, but not limited to, use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. This product data sheet does not contain a complete statement of, and does not constitute a representation, warranty or guaranty with regard to, a product's characteristics, uses, QUALITY, merchantability, FITNESS FOR A PARTICULAR PURPOSE, or the suitability, safety, efficacy, hazards or health effects of the product, whether used singularly or in combination with any other product, EXCEPT TO THE EXTENT REQUIRED BY RELEVANT LAWS AND REGULATIONS. Purchasers and users of the product are responsible for determining if the product is suitable for the intended use and that their workers and the general public are advised of any risks resulting from such use. Nothing contained in this Product Data Sheet shall be construed to modify any of the commercial terms pursuant to which the product was sold by IVPM including, but not limited to, terms and conditions addressing each party's respective rights and obligations with regard to warranties, remedies and indemnification.

If purchasers and users believe or have reason to believe that the Product Data Sheet or other information provided to them by IVPM is inaccurate or in any way insufficient for any purpose, they should immediately notify IVPM of the same and of the basis for their belief (for example, studies, data, reports of incidents, etc.) so that IVPM can determine whether modification or supplementation of the Product Data Sheet, or other measures, are appropriate. Failure of purchasers and users to timely provide such notice shall be deemed a waiver by purchasers and users of any and all claims, demands or causes of action, including, but not limited to, causes of action based on an alleged failure to warn, for personal injury or damage to the environment or property arising from or attributable to the use of product.

This disclaimer shall be effective to the extent allowed by law. Should any provision be deemed to be ineffective or unenforceable, that provision shall be deemed severed from this disclaimer and the remaining provisions shall continue to have full force and effect.