

TECHNICAL DATA SHEET

PET RESIN HFR1

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PRODUCT

Polyethylene Terephthalate (PET)

PRODUCT DESCRIPTION

Octal PET HFR1 resin is produced using the latest state-of-the-art 2R direct high I.V. technology. This advanced technology ensures that the properties and quality of PET resin are superior with low crystallinity and low AA generation, making it the preferred choice for a number of applications.

OCTAL PET HFR1

Octal PET HFR1 resin is suitable for hot fill beverage containers. The resin has been designed and engineered for fast crystallization during the blow molding process and to provide higher heat resistance, high dimensional stability and mechanical properties. The low crystallinity and heat of fusion of the resin provide unique advantages of low residual Acetaldehyde generation in injection molding and also lower energy for conversion into bottles. Octal PET HFR1 resin's unique formula quickens the IR absorption in the oven of reheat blow molding systems and reduces the heating time in the blowing process, thus saving energy. The improved heat absorption and heat retention also optimize the flow of polymer into intricate sections of the blow mold, allowing replication of fine designs of the mold. The spherical pellets of the resin ensure smooth conveying in long pipelines with near zero fines generation. The uniform spherical surface allows for easy flow of air around the PET pellets and helps in consistent drying at lower temperatures, saving valuable energy.

FOOD CONTACT

Octal PET HFR1 resin conforms to the requirements of the following regulations: EU Regulation No.10/2011, USA FDA CFR21 Sect. 177.1630, EC Directive 94/62/EC, UK Statutory Instrument 2003 No. 1941 and the CONEG Regulations (all as amended to date).

TYPICAL PROPERTIES

Properties	Unit	Value	Test method
Intrinsic Viscosity	dl/g	0.80 ± 0.02	ASTM D4603-03 ISO 1628-5
Moisture Content (when packed)	wt%	0.1 max	OCTAL – 002
Acetaldehyde	ppm	1.0 max	ASTM F2013-10
Colour CIE LAB			
L	-	76.0 min	ASTM D6290
b	-	-0.5 max	ASTM E313
Melting Point	°C	251 ± 2	ISO 11357-3
Fine Particles	ppm	100 max	OCTAL – 006
Weight of 100pcs chips	g	1.6 ± 0.2	OCTAL – 007

SYSTEM CERTIFICATIONS

Octal is certified against the following standards: BRC Global Standard for Packaging Materials, Issue 6; ISO 9001:2015 QMS; ISO 45001:2018 H&S; ISO 17025:2017 Laboratory Accreditation and ISO 14001:2015 EMS.

STORAGE CONDITIONS

Octal's resin products should not be stored in an area with exposure to direct sunlight and should be kept in their original packaging. The storage area should be kept clean and free from contamination or objects that could damage the product.

WARRANTY

OCTAL SAOC FZC warrants its product's compliance to quality specifications and related regulatory requirements specified in detail in its publications. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must make their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any product and nothing herein waives any of the seller's conditions of sale.