

TECHNICAL DATA SHEET

PET RESIN HFR1

Note: The information on this PET Data Sheet is given to the best of the manufacturer's knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond the manufacturer's control, only the quality of the product itself can be guaranteed. OCTAL Petrochemicals LLC FZC reserves the right without notice to alter or change the contents of this PET Data Sheet.

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SALES SPECIFICATIONS

PRODUCT DESCRIPTION

OCTAL PET HFR1

Polyethylene Terephthalate (PET) Polymers

OCTAL PET resin is produced using the latest state-of-the-art 2R direct high IV. 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.

HFR1 is a food grade PET resin, suitable for hot fill beverage containers. Developed and engineered for fast crystallization during the blow molding process, HFR1 also possesses higher heat resistance, dimensional strength and mechanical properties. A low degree of crystallinity and heat of fusion are some of the advantages of OCTAL PET HFR1 that save energy and reduce regeneration of acetaldehyde during downstream processing. The spherical pellets of the resin ensures 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.

OCTAL PET HFR1 resin is considered safe for food packaging applications based on all compliance to USA FDA regulation CFR 21 section 177.1630, EU regulation 10/2011, EC Directive 94/62/EC and the CONEG regulations (USA/CANADA) for heavy metal content.

TYPICAL PROPERTIES

Property	Unit	Value	Test method
Intrinsic Viscosity	dl/g	0.80 ± 0.02	OCTAL – 001
Moisture Content (when packed)	wt%	0.1 max.	OCTAL – 002
Acetaldehyde	ppm	1.0 max.	OCTAL – 003
Colour CIE LAB			
L		76.0 min.	OCTAL – 004
b		-0.5 max.	
Melting Point	°C	251 ± 2	OCTAL – 005
Fine Particles	ppm	100 max.	OCTAL – 006
Weight of 100pcs chips	gm	1.6 ± 0.2	OCTAL – 007

WARRANTY

OCTAL warrants its products 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.

