



# Envision Plastics

## PCR TECHNICAL DATA SHEET

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# EcoPrime™

Devolatilized Natural Homopolymer High Density Polyethylene  
Post Consumer Resin



PROPERTIES	METHOD	RANGE	
Melt Index	ASTM D1238	0.50 to 0.85	g/10min
Density	ASTM D792	0.958 to 0.965	g/cm <sup>3</sup>
Moisture	ASTM D6980	< 0.050	%
Pellet Size	Pellets/gram	50 to 80	
Volatiles	Gas Chromatograph	< 320	ppb

### CONTAMINANTS

0.25 to 1.00mm <sup>2</sup>	Specks/10gm	10 max.
>1.00mm <sup>2</sup>	Tappi Chart	1 max

### COLOR

L*		68.00 Minimum
A*	ASTM D6290	-4.50 to 0.00
B*		0.00 to 13.00

### OTHER PROPERTIES

METHOD	NOMINAL VALUES	
Elongation @ Break	ASTM D638	197 %
Flex Modulus	ASTM D790	111,500 psi
Impact Resistance	ASTM D256	4.5 ft-lb/in
Mold Shrinkage	Length	2.98 %
	Width	2.60 %

### REACH Certification # 01-2119462827-27-0400

#### Supplement:

Gas Chromatography detects and measures the amount of VOC's in the EcoPrime. According to FDA, the threshold for a polyolefin to be suitable for use in contact with food packaging, VOCs must be below 320 ppb. **All Envision Plastics' Food Grade PCRs have U.S.A. Food and Drug Administration Letter of Non-Objection.**

<https://www.fda.gov/Food/GuidanceRegulation/GuidanceDocumentsRegulatoryInformation/IngredientsAdditivesGRASPackaging/ucm120762.htm>

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