



Technical Data Sheet

rPET RESIN



Product

Recycled Polyethylene Terephthalate (PET) Bottle grade polymer

Product Description

Ismail Resin's food-grade rPET copolymer resin is specifically designed for safe and reliable use in food and beverage packaging. It is suitable for drinking water applications and engineered for easy processability. Grades IR-CR76, IR-CR80, and IR-CR84 have been tested and proven safe for food packaging applications.

Properties	Unit	Grade:IR-CR76	Grade:IR-CR80	Grade:IR-CR84	Test Method	Test Equipment
		Value	Value	Value		
Intrinsic Viscosity	dl/g	0.76 ± 0.02	0.80 ± 0.02	0.84 ± 0.02	ASTM D4603	Ubbelohde Viscometer
Carboxylic End Group	m.mol/kg	30 ± 3	30 ± 3	30 ± 3	PV-07090.6	Manual Titration with Digital Burette
Color No L	L H	62±2	62±2	62±2	PV-07110.5	Color Meter
Color No b	L b	-1 to +2	-1 to +2	-1 to +2	PV-07110.5	Color Meter
Acetaldehyde	ppm	≤1	≤1	≤1	ASTM-F-2013	Gas Chromatography
Melting Point	°C	247±3	247±3	247±3	ASTM-E794	DSC
Moisture	%	0.4 Max	0.4 Max	0.4 Max	ASTM-D6980	Moisture Analysis
Chips per gram	No.	60±4	60±4	60±4	MANUAL	Manual
Benzene	ppb	Max 50	Max 50	Max 50	-	Gas Chromatography

The specifications describe food grade rPET Resin IR-CR76, IR-CR80 and IR-CR84 which meet all of the requirements when tested as directed by the reference methods.

Ismail **GreenPET** Project



Every Bottle Matters!

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