

Technical Data Sheet

1. Product and Company

Product Name	Recycled Polyethylene Terephthalate (rPET) Chips/Resin
Product Code / Grade	Chemco rPET 0.84
Input / Feed Material	Post-Consumer PET bottles (100 % PCR)
Manufacturer	Chemco Moulding Solutions Private Limited, Plot No. PE – 543, Bol Sanand Industrial Estate, Sanand-II, Sanand, Ahemadabad-382110, Gujarat, India
Head Office	Chemco House, 6th Floor, D Sukhadwala Road, Fort, Mumbai-400001, India www.chemcogroup.com
For Product Information	1800-22-1777

2. Applications

Chemco rPET is a high-performance recycled PET resin designed for diverse manufacturing applications:

- Beverage and consumer packaging bottles
- Food contact and general-purpose containers
- Thermoformed sheets and films
- Industrial packaging straps
- Bulk material handling bags

3. Features

Chemco rPET delivers key performance advantages:

- Superior thermal processing characteristics
- Versatile application compatibility across packaging sectors
- Reliable batch-to-batch consistency
- Excellent structural integrity and mechanical strength
- Minimal impurity levels for quality assurance

4. Typical Properties

Sl. No.	Property	Unit	Value Range	Standard / Method
1	Intrinsic viscosity	dl/gm	0.84 ± 0.02	Dynisco Melt Indexer IV Tester / ASTM D 1238
2	Colour (CIE Lab)	CIE	L ≥ 67, a ≥ -3, b ≤ 1	Spectrophotometer / QAWI02
3	Pellet Count	Pellets/Gram	55 ± 5	Weighment method / QAWI05
4	Melting point	°C	240-251	DSC-Analysis
5	Acetaldehyde	ppm	Max. 1.00	GC-MS Headspace
6	Moisture Content	%	< 0.2	Moisture Analyzer / ASTM D 6980
7	Bulk Density	kg/m ³	790-890	Density Measurement / ASTM D 1895
8	Crystallinity	%	> 50	Thermal Analysis / QAWI06
9	Fines	%	< 0.01	Sieve Shaker / QAWI10
10	Odour	NA	No odour	Physical Test / PQA05
11	Black Specks	Nos	(0.5-1 mm) < 10/ 1Kg (1-2 mm) < 3/ 1Kg (> 2 mm) 0/ 5Kg	Visual Inspection / QAWI09
12	Limonene	PPb	<20	In house method by GC-MS Headspace QAWI13
13	Benzene	PPb	<50	In house method by GC-MS Headspace QAWI13

5. Other Information

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Chemco rPET represents our advanced line of recycled polyethylene terephthalate resins, incorporating post-consumer recycled materials processed to industry-leading quality standards.

DISCLAIMER

The technical data provided herein is based on current understanding but does not constitute a warranty or specification commitment. Users must verify suitability for their specific application and ensure compliance with all applicable regulations and standards. Specifications are subject to change as part of continuous improvement. For application guidance or updates, please contact our technical support team.