sinox 鑫诺克斯

Global Recycled Standard

Technical Data Sheet | PP Clear Chips-Post Consumer |

SUITABLE FOR APPLICATIONS:

a. *TQPP Film*
b. *Injection Moulding Applications*

KEY FEATURES:

- **Suitable for food contact application:** U.S. FDA's Letter of No Objection for usage up to 100% recycled content in the manufacture of articles under specific Conditions of Use (COU) E through G.

- **Global Recycled Standard (GRS)** certified 100% Recycled PP content and produced with responsible social, environmental and chemical practices.

PROPERTIES		TEST METHOD	UNIT	SPECIFICATION
Melt flow index	(230°C / 2.16kg)	ASTM D1238	gm/10 min	15 (+/-5)
Tensile strength at yield	(50mm/min)	ASTM D638	MPa	> 27
Elongation at yield	(50mm/min)	ASTM D638	%	> 10
Tensile strength at break	(50mm/min)	ASTM D638	MPa	> 14
Tensile Modulus	(50mm/min)	ASTM D638	MPa	> 1200
Max Elongation		ASTM D638	%	250 (+/-85)
Notched Izod Impact strength	(23°C)	ASTM D256	J/m	> 25
Density		ASTM D792	Kg/m^3	900- 920
Flexural Strength		ASTM D790	MPa	33.5 (+/-1.5)
Flexural Modulus		ASTM D790	MPa	840 (+/-15)
Hardness Shore		ASTM D2240		>65
Moisture			%	0.20 – 0.25
FNTC	-	ISO 16770	Hr.	NA
OIT	-	ASTMD 3895-14	Min	NA
Limonene	-	HS/GC-MS	PPM	NA

PROCESSING PARAMETERS (INJECTION MOULDING)		OPTIMUM	RANGE
Melt Temperature		210° C	190-245° C
Barrel Zone Temperature	Rear	190° C	180-210° C
	Center	210° C	190-230° C
	Front	220° C	200-240° C
Mould Temperature		50° C	30-60° C
Pre-Drying Requirements			90° C, 2 hr

Actual parameters will need to be set by the customer depending upon the equipment design and final target properties.

OTHER DETAILS	
Recycling Method	Mechanical
Source	Post – Consumer
Recycled Feedstock Content	100%
Form	Pellet
Color	Natural

COMPLIANCES:

- Polypropylene Clear resin has **food grade compliance** as per:
  - LNO received from US FDA.
- Polypropylene Clear resin is compliant to following regulations:
  - EU REACH Regulation (EC) No 197/2006 Article 33 (1) (SVHCs).
  - RoHS Annex II of 2011/65/EU and amendment (EU) 2015/863 (Heavy Metals).
  - EN71-3:2019

PACKAGING & LABELLING:

Polypropylene Clear resin is packed in 0.95 m x 0.95 m x 1.25 m brand new Polypropylene bulk bags with a virgin LDPE liner (avg. 700 ± 5 KGs). The bags are firmly tied on top with lock tie / PP strings and bottom with PP strings. The packaging quantity can be adjusted as per customer requirement. Product can be discharged from the top as well as the bottom of the bag. Each bag is identified with a label giving information of Batch No., Bag No., Weight, date/time of packing and operator packed.