

A-PET(RAPT)

Description:

A-PET (Amorphous-polyethylene terephthalate) is amorphous thermal plastics composed of carbon, hydrogen and oxygen. It will not produce toxic gases during the process of A-PET incineration. It is suitable for vacuum forming, food packaging, boxes folding, UV offset printing, screen printing, stationery, card cases, etc.



Features:

- Better transparency and gloss than PVC
- Excellent chemical and oil resistance
- Excellent gas and water resistant
- Excellent impact resistance
- Excellent toughness and stiffness
- Gamma ray sterilization resistance
- Non toxic and odourless



PHYSICAL PROPERTIES	UNIT	TEST METHOD	TYPICAL VALUES
Thickness	mm	RPC-001	0.20~1.00
Gloss Value	%	ASTM D523 at 60°	150 ↑
Haze Value	%	ASTM D1003	3 ↓
Transparency	%	ASTM D1003	90 ↑
Specific Gravity	g/cm ³	ASTM D792	1.34
Tensile Strength	psi	ASTM D882	7000 min.
Elongation	%	ASTM D882	100 ↑
Heating Shrinkage	%	ASTM D1024 at 100°C × 5'	CD 0 ↓
			MD -6 ↓
Thickness Tolerance	%	RPC-001	0.20~0.50: ±5
			0.51~1.00: ±3

IV Value			0.70 ↑
TG Value		TESTED BY DSC	70
Melting Point	°C	TESTED BY DSC	250
Ignition Temp.	°C		500
Dyne Level	dynes/cm	ASTM D2578	34~36
Crystallization Half Life	secs	By 140°C	30