CLEARTUF P82

Polyethylene Terephthalate

M&G; Gruppo Mossi & Ghisolfi

Message:

CLEARTUF P82 resin is a food grade PET copolymer resin based on terephthalic acid. Its high clarity and sparkle make it well suited for the production of bottles and other containers by conventional single and two stage processing machines. It is a high molecular weight polymer for general use in manufacturing containers.
Regulatory Status:
CLEARTUF P82 resin is suitable for the manufacture of food packaging articles but specific regulations differ from country to country. For information about the regulatory status within the USA under FDA regulations or within Europe under EC and/or national regulations, please contact your local sales representative or our Product Safety and Compliance Department.
Physical - Chemical Properties:
Bottles made from CLEARTUF P82 resin have good dimensional stability and low creep, high optical clarity and glossing, good barrier properties to oxygen, carbon dioxide and moisture. These bottles also have high chemical resistance to alcohol, oils, fats and dilute aqueous solutions of minerals acids, bases, salts and soaps.
CLEARTUF P82 resin is available in natural granular form, bulk or packed in big bags.

General Information	
Features	High molecular weight Copolymer Definition, high Compliance of Food Exposure
Uses	Bottle Food container
Forms	Particle

Thermal	Nominal Value	Unit
Melting Temperature	250	°C

Additional Information

Intrinsic viscosity (I.V.), SMS 2867, +/- 0.02: 0.78 dl/gAcetaldehyde content, SMS 2791: 1 ppm Max.Colour (L* value), SMS 2789: 80 Min.Colour (b* value), SMS 2789: +1 Max.Melting point, SMS 2844: 250°CWater contents, SMS 2845: <= 0.4% m/mMass of 100 chips, SMS 2790: 1.8 gForeign particles, Visual Detection: None

Extrusion instructions

Drying:
Thermoplastic polyesters such as CLEARTUF P82 resin can undergo hydrolysis if moisture is not eliminated leading to a decrease in molecular weight and loss in mechanical properties of the bottle, particularly top load performance and impact strength. A level of 0.003% (30ppm) or less, is required prior to final processing. Drying is best accomplished in a continuous high heat dehumidifying type air hopper dryer with a regenerative desiccant bed using -20 °F max. (-29 °C max.) dew point air. Typical drying conditions are an air temperature of 175°C (350°F), 4-6 hours residence time and a minimum air flow rate of 1.0 ft3 per minute per pound of polymer per hour.

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