TECHNICAL DATA SHEET
REV20210216

K4527ET

Polypropylene Random Copolymer / High Clarity Injection Molding

PRODUCT DESCRIPTION

K4527ET is a Medical Grade Polypropylene Random Copolymer with the characteristic of high clarity and high melt flow for using injection molding process.

TYPICAL APPLICATION

- Medical Devices
- Syringes
- Labwares

PRODUCT FEATURES

- Medical grade
- High clarity and high gloss
- Without optical brightener
- Odorless
- Ethylene oxide/Autoclave sterilization

COMPLIANCE

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS
- REACH
- USP Class VI
- EP 3.1.6

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE
Melt Flow Index (2.16 kg/230 °C)	ASTM D1238	g/10 min	27
Density	ASTM D792	g/cm^3	0.90
Tensile Strength at Yield	ASTM D638	MPa	30
Elongation at Yield	ASTM D638	%	13
Izod Notched Impact Strength (at 23 °C)	ASTM D256	J/m	50
Flexural Modulus (1% SECANT)	ASTM D790	MPa	1150
Rockwell Hardness	ASTM D785	R-Scale	91
Heat Distortion Temperature (0.45 MPa)	ASTM D648	°C	80
Haze (1 mm)	ASTM D1003	%	8

Remark: The values presented on the above are typical laboratory, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitable of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.

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PROCESSING TECHNIQUE

Cylinder Temperature: 210 - 240 ˚C
Mold Temperature : 40 - 60 ˚C
Injection Pressure : 30 - 80% of maximum pressure
Holding Pressure : Relative to injection pressure
Back Pressure : 0 - 20 of maximum pressure
Injection Speed : Low to medium of maximum speed
*However, the actual processing conditions depend on mold design, power of machine, equipment and other environments.

PRODUCT PACKAGING

- 25 kg loose bag

STORAGE

Storage in 20 - 80% relative humidity at ambient temperature preferably not higher than 38 ˚C (100 ˚F).
Dry environment with the exclusion of contamination.
Protection against direct sunlight, radiation and antificial light containing UV-Radiation.
Protection from ozone-generating electrical devices.
Under these optimal conditions, the physical properties of resins should remain stable with the exception of the yellowness index which is exoected to increase over time.

More information provide in safety data sheet.

SAFETY

This product is not classified as hazardous material for more information please refer to safety data sheet.