

Product Texts**Productprofil:**

Vu-Stat Y-20 compound is a transparent, electro-static dissipative acrylic-based multipolymer mainly for molding medical applications.

Typical properties of Vu-Stat Y-20 compound are:

- inherent and permanent static- dissipative properties, not surface treatment
- excellent bonding and welding capabilities
- good light transmission
- prevents drugs from adhering to application device
- high melt flow rate

Application:

Used for drug delivery devices, inhalation devices, electronic packaging and any application where anti-static protection is required.

Example:

Inhalers, needle hubs for brachiotherapy, radioactive seed implants and electronic components requiring dust resistant surfaces.

Processing:

Vu-Stat Y-20 compound can be processed with 3- zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:

Available in 1500 lb. gaylord boxes; other packaging available on request.

Regulatory and compliance requirements:

Meets requirements of the United States Pharmacopeia Class VI in 001 tint only; ISO 10993-1 in 001 tint only and FDA for food contact for all use conditions up to and including hot filled or pasteurized above 150 degrees F (e.g. Condition 21 CFR 176.170) for all food types except those containing more than 8% alcohol.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	4.8	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
^[C] Ejection temperature	71	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1500	MPa	ISO 527
^[C] Yield stress	34.1	MPa	ISO 527
^[C] Yield strain	4.4	%	ISO 527
^[C] Charpy impact strength, +23°C	112	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6.8	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	89	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	96	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	91	°C	ISO 306

[C]: CAMPUS

Optical properties	Value	Unit	Test Standard
ISO Data			
^[C] Luminous transmittance	84	%	ISO 13468-1, -2
[C]: CAMPUS			

Other properties	Value	Unit	Test Standard
^[C] Density	1120	kg/m ³	ISO 1183
[C]: CAMPUS			

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	200 - 250	°C	-
Mold temperature	30 - 60	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Anti-static, Transparent

Features

Good Adhesion, Weldable

Certifications

Food contact, Food approval FDA 21 CFR, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved

Applications

Electrical and Electronical, Medical, Packaging

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING

Predrying temperature: 80 °C

Predrying time: 3 - 4 h

PROCESSING

Melt temperature: 200 - 250°C

Mold temperature: 30 - 60°C