

Vu-Stat™ Y-20

Polymethyl Methacrylate Acrylic
Evonik Cyro LLC

Message:

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

General Information			
Additive	Antistatic		
Features	Antistatic		
	Bondability		
	Food Contact Acceptable		
	High Clarity		
	High Flow		
	Weldable		
Uses	Electrical/Electronic Applications		
	Medical/Healthcare Applications		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 176.170		
	ISO 10993		
	USP Class VI		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Apparent Density	0.65	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (Equilibrium)	< 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	54		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2140	MPa	ASTM D638
Tensile Strength	39.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	
Break	18	%	
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength	57.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	27	J/m	
23°C, 6.35 mm	69	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	90.0	°C	ASTM D648
Vicat Softening Temperature	103	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	9.5E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance (3200 µm)	85.0	%	ASTM D1003
Haze (3200 µm)	7.0	%	ASTM D1003
Yellowness Index (3.20 mm)	-0.30	YI	Internal Method

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