

**Veradel® HC A-301**

PESU

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	30	g/10min	ASTM D 1238
Temperature	380	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	2690	MPa	ASTM D 638
Tensile Strength	88.9	MPa	ASTM D 638
Elongation at Yield	6.5	%	ASTM D 638
Flexural Modulus	2620	MPa	ASTM D 790
Flexural Strength	125	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	52	E-6/K	ASTM D 696
DTUL @ 264 psi	200	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	15	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.0017	-	ASTM D 150
Dissipation Factor, 1 MHz	0.0056	-	ASTM D 150
Dielectric Constant, 60 Hz	3.51	-	ASTM D 150
Dielectric Constant, 1 MHz	3.54	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.5	%	ASTM D 570
Water Absorption, Equilibrium	1.9	%	ASTM D 570
Density	1370	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	175	°C	-
Pre-drying - Time	2.5	h	-
Melt temperature	345 - 385	°C	-
Mold temperature	149	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat, Transparent, Sterilizable, Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization

**Chemical Resistance**

Acid Resistance, General Chemical Resistance, Hydrolytically Stable

**Certifications**

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

**Applications**

General Purpose, Medical

**Features**

Creep Resistance, Good Adhesion, Thermal Stability

**Regional Availability**

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