



## GEON® Rigid MED Formulations

### Vinyl-Based Formulations for Healthcare & Medical Applications

GEON® Rigid MED PVC is a medical grade rigid PVC product line specifically formulated for critical medical device applications. GEON® Rigid MED PVC is able to provide customers with a full product range of rigid PVC solutions including:

- Wide variety of melt index, stiffness, temperature resistance and property selections
- Variety of rigid PVC solutions available
- Biotested to USP Class VI compliance
- High clarity & opaque grades
- Excellent quality and consistency
- Excellent regulatory compliance
- Customized grades available
- Highly processable for extrusion, injection molding, film and sheet, blow-molding, etc.
- Sterilizable with gamma (stabilized) & EtO
- Made under strict cleanliness, and manufacturing
- line clearance criteria in an ISO 13485 quality
- system plant environment
- Wide variety of functionality choices
- Design flexibility

### MARKETS AND APPLICATIONS

- Medical Equipment
- Film & Sheet
- Medical Mobility
- Fluid Management
- Surgical Tools
- Medical Housings
- Diagnostics/Labware
- Hospital Furniture & Flooring
- Rigid Tubing
- Prosthetics, Orthotics, Braces, Splints
- Connectors, Luers, Stopcocks, Manifolds
- Patient Monitoring
- Medical & Pharma Packaging Ambulatory
- Respiratory and Anesthesiology

## FUNCTIONAL CUSTOMIZATION OPTIONS

- Color with Foster Medibatch™ FDA medical grade color pigments
- Imaging visibility with Foster LoPro™
  - Fluoroscopy (radiopacity)
  - MRI
  - Ultrasound
- Low COF with Foster Propell+™
- Antimicrobial with Foster Combat™ antimicrobial technology
- Durometer
- Melt index
- Clarity/Translucency
- Authentix® Brand Security Taggants
- Identification and printing with Foster LazerMed™ laser marking technology
- Variety of plasticizer options (phthalate & non-phthalate)
- An assortment of functional based PVC alloys

## PVC - UNIQUE VERSATILITY IN MEDICAL

- Long, positive history in medical
- Very good physical property matrix
- Rigid and flexible grades
- No drying
- Good UV resistance
- Innate flame retardance
- Easily processed
- Excellent clarity
- Excellent secondary process capacity
  - Bonding
  - Printing
  - Welding Etc.
- Excellent biocompatibility
- Sterilization via EtO and gamma (stabilized)
- High performance - low cost

## GEON® Rigid MED SOLUTIONS

PRODUCT	FEATURE	FLAME RATING	IMPACT (ft · lb/in)	USP CLASS VI	HDT1	SPECIFIC GRAVITY	TENSILE STRENGTH (psi)	FLEXURAL MODULUS (psi)
<a href="#">HC 8210</a>	Medium Flow, Medium Impact	5VA @ 1.5mm V0 @ 0.75mm	12.0	✓	162°F 72.2°C <sup>2</sup>	1.33	6000	340,000
<a href="#">HC 8220</a>	High Flow, High Impact	N/A	21.0	✓	156°F 68.9°C	1.33	7000	400,000
<a href="#">HC 8230</a>	Medium Flow, High Impact	5VA @ 2.0mm V0 @ 1.5mm	24.0	✓	157°F 69.4°C	1.33	6600	393,000
<a href="#">HC 4895</a>	High Impact, Transparent	V0 @ 1.5mm	17.0	✓	160°F 71.1°C	1.30	6200	340,000
<a href="#">HC 8250H</a>	High Heat Distortion Temp	5VA @ 1.6mm V0 @ 1.6mm	5.0	✓	172°F 77.8°C	1.26	6400	347,000

<sup>1</sup> Unannealed at 66 psi

<sup>2</sup> Annealed at 264 psi

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