

13G27M

Random Copolymer for Injection Molding

Features: Clarified. Produced without animal derived components

Sterilization: Gamma radiation, EtO, E-beam, and autoclave

Applications: Syringes, medical device components, labware

Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	27 g/10min		D1238
Density	0.90 g/cm ³		D1505
Melting Temperature	145 -152 °C	293 – 306 °F	D3418

Mechanical Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Tensile Yield Strength	27 MPa	3940 psi	D 638
Tensile Yield Elongation	9.9 %	9.9 %	D 638
Flexural Modulus - Tangent	1040 MPa	151 kpsi	D 790
Flexural Modulus - Secant	940 MPa	136 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	85 °C	185 °F	D 648
Rockwell Hardness		93 R	D 785
Notched Izod @ 23°C	40 J/m	0.7 ft-lb/in	D 256
Gardner Impact @ 23°C	>36 J	>320 in-lb	D 5420
Haze @ 25mil	7.3 %	7.3 %	D 1003

Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

USP <88> Class VI, USP<85>, and ISO 10993-5

Drug Master File listed

118 Huntsman Way, Longview, TX 75602 – (903) 239-5332

This document contains selected information about the product listed and is provided to you for informational purposes only. The data and information represented herein refer to typical values obtained in our laboratories by the methods or apparatuses indicated and should serve only as a guide. Processing variables and exact combination of materials are a major factor in product performance and since a customer's testing conditions may be different than those used by FHR the reproducibility of data is not guaranteed. Purchasers and users of the product may need to evaluate additional information beyond what is provided and are responsible for determining that the product is suitable for the intended use. Purchaser's and users should advise workers and the general public of any risks resulting from such use. **This INV Polypropylene, LLC product meets certain requirements for use in MEDICAL APPLICATIONS. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that this INV Polypropylene, LLC product is safe, lawful, and technically suitable for the intended use. INV Polypropylene, LLC encourages its customers to review their application with an INV Polypropylene, LLC technical representative to ensure that this product is not used in medical applications for which it was not intended. This product is not intended for use in the manufacture of any form of implanted medical or surgical device.** This document and its contents may not be reproduced, distributed, or disclosed by you to any third party for any purpose. It relates only to the identified product and is based on information available as of the date hereof. FHR does not have any obligation to notify you if the above information should change after the date hereof. THIS DOCUMENT DOES NOT CONTAIN A COMPLETE STATEMENT OF, AND DOES NOT CONSTITUTE A REPRESENTATION, WARRANTY OR GUARANTY WITH REGARD TO, A PRODUCT'S CHARACTERISTICS, USES (including medical applications), PATENTS (existent or non-existent) SUITABILITY, SAFETY, EFFICACY, HAZARDS OR HEALTH EFFECTS. Nothing contained in this document shall be construed to modify any of the commercial terms pursuant to which the product was or may be sold by INV Polypropylene, LLC including, but not limited to, terms and conditions addressing each party's respective rights and obligations with regard to warranties, remedies and indemnification.