

# J50-170-201

POLYETHYLENE COPOLYMER

## TECHNICAL DATASHEET

### Product Description

J50-170-201 is a bimodal grade that is specially designed to combine high density with very high ESCR. Its broad molecular weight distribution provides excellent flow characteristics for demanding injection molding processes. J50-170-201 is approved for use in injection molded automotive SCR tanks. This material meets the U.S. Food and Drug Administration requirements of 21 CFR 177.1520.<sup>1</sup>

### Typical Properties<sup>2</sup>

Property	English Units	SI Units	ASTM Method
<b>Resin Properties</b>			
Density		0.953 g/cc	D4883
Melt Index (190°C/2.16 kg)		1.7 g/10 min	D1238
<b>Compression Molded Specimen Test</b>			
Tensile Strength @ Yield	3,100 psi	21 MPa	ISO 527
Tensile Elongation @ Yield	11 %	11 %	ISO 527
Flexural Modulus, Tangent Method	200,000 psi	1,380 MPa	ASTM D790A
Notched Charpy Impact Strength 23°C	10 ft-lb <sub>i</sub> /in <sup>2</sup>	22 kJ/m <sup>2</sup>	ISO 179
Notched Charpy Impact Strength -30°C	2.4 ft-lb <sub>i</sub> /in <sup>2</sup>	5 kJ/m <sup>2</sup>	ISO 179
Hardness, Shore D	65	65	ASTM D2240
Vicat Softening Point	255 °F	124 °C	ISO 306
Deflection Temperature @ 264 psi (1,820 kPa)	104 °F	40 °C	ISO 75
ESCR, Condition B, 10% Igepal, F50	>2,000 hrs	>2,000 hrs	ASTM D1693

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<sup>1</sup>Consult the Regulatory Position Statement for specific use conditions and limitations.

<sup>2</sup>Typical property values will vary and are not to be used as specification limits.

## Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at [www.ineos-op.com](http://www.ineos-op.com), or call + 1-800-527-5419.

## Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Safety Data Sheet (SDS) contains the available product health and safety information for this material and can be found at [www.ineos-op.com](http://www.ineos-op.com). Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

The Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the SDS of the original material should not be used.

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