

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 177.1520.¹

Typical Properties²

Property	English Units	SI Units	ASTM Method
Resin Properties			
Density		0.953 g/cc	D4883
Melt Index (190°C/2.16 kg)		1.7 g/10 min	D1238
Compression Molded Specimen Test			
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 _i /in ²	22 kJ/m ²	ISO 179
Notched Charpy Impact Strength -30°C	2.4 ft-lb _i /in ²	5 kJ/m ²	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