T50-4400-119 Polyethylene Copolymer

T50-4400-119 is a high-flow, high density polyethylene copolymer intended for high speed injection molding of thin wall containers. This material will allow for cycle time reduction while still imparting reasonable impact strength. This resin meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	–	0.951 g/cc	**D4883**
Melt Index 190 C/2.16 kg	–	44 g/10 min	**D1238**
Compression Molded Sample			
Tensile Strength (2 in/min)			**D638**
@ Yield	3,600 psi	26 MPa	
@ Break	2,900 psi	21 MPa	
Elongation (2 in/min)			**D638**
@ Yield	7.8 %	7.8 %	
@ Break	40 %	40 %	
Flexural Modulus			**D790A**
Tangent Method	163,000 psi	1,200 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	0.5 ft-lbf/in	3.0 kJ/m^2	
Hardness			**D2240**
Shore D	62	62	
Vicat Softening Point	244 F	118 C	**D1525**
Brittleness Temperature	<-94 °F	<-70 °C	**D746**
Deflection Temperature			**D648**
@ 66 psi	151 F	66 C	
Environmental Stress Crack Resistance			**D1693**
Condition B, 100 % Igepal, F50 (hrs.)	1	1	

[1] **Typical properties will vary and are not to be used for specification purposes.**

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Olefins & Polymers USA