

AuroraTec™ 3501E

Aurora Material Solutions, LLC - High Density Polyethylene

General Information

Product Description

AuroraTec™ 3501 is designed for general purpose blow molding applications and extrusion
Cold Temperature impact
High stiffness
Excellent stress crack resistance
FDA 21 CFR 177.1520

Formerly known as EnLene 3501E

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose • High ESCR (Stress Crack Resist.)	• High Stiffness • Low Temperature Impact Resistance	
Uses	• Containers • Industrial Applications	• Packaging • Pharmaceutical Packaging	
Agency Ratings	• FDA 21 CFR 177.1520		
Appearance	• Natural Color		
Processing Method	• Blow Molding	• Extrusion	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.955		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	0.018 to 0.022	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4000	psi	ASTM D638
Flexural Modulus	200000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-180	°F	ASTM D746

Processing Information

Injection	Nominal Value	Unit
Suggested Shot Size	25 to 75	%
Rear Temperature	450	°F
Middle Temperature	470	°F
Front Temperature	475	°F
Nozzle Temperature	475	°F
Processing (Melt) Temp	485	°F
Mold Temperature	45 to 65	°F
Back Pressure	25.0 to 50.0	psi
Screw Speed	25 to 75	rpm
Vent Depth	1.0E-3 to 1.5E-3	in

Notes

¹ Typical properties: these are not to be construed as specifications.

