AuroraTec™ 3501ES

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 Crack Resistance
Contains a special slip agent which furter reduces the surface coefficent of friction

FDA 21 CFR 177.1520

Formerly known as EnLene 3501ES

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Slip		
Features	• General Purpose • High ESCR (Stress Crack Resist.)	• High Stiffness • Low Friction	• Low Temperature Impact Resistance • Slip
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.