

AuroraTec™ 1061

Aurora Material Solutions, LLC - *High Density Polyethylene*

General Information

Product Description

AuroraTec™ 1061 is a homopolymer with outstanding stiffness with a good balance of processability and cold weather impact performance.

High stiffness

Maximum impact strength and toughness

Formerly known as EnLene 1061

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability • Good Weather Resistance	• High Impact Resistance • High Stiffness	• High Toughness • Homopolymer
Uses	• Crates	• Packaging	• Pails
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.961		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	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)	4800	psi	ASTM D638
Flexural Modulus	250000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	188	°F	ASTM D648

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.

