

AuroraTec™ 2012

Aurora Material Solutions, LLC - Copolyester

General Information

Product Description

Polyester Copolymer

Formerly known as EnCounter 2012

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • High Clarity		
Appearance	• Clear/Transparent		
Processing Method	• Extrusion Blow Molding • Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.17		ASTM D792
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	230000	psi	ASTM D638
Tensile Strength (Yield)	7690	psi	ASTM D638
Tensile Elongation (Break)	140	%	ASTM D638
Flexural Modulus	230000	psi	ASTM D790
Flexural Strength	9570	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	2.4	ft-lb/in	
73°F	12	ft-lb/in	
Unnotched Izod Impact	No Break		ASTM D4812
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	228	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	198	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	190	°F
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	500 to 540	°F
Mold Temperature	100 to 151	°F

Notes

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

