

## AuroraTec™ 4010UR

Aurora Material Solutions, LLC - Polycarbonate + PET

### General Information

#### Product Description

Injection Grade PC/PET with UV Stabilizer and Mold Release

Formerly known as EnCounter 4010UR

#### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• Mold Release • UV Stabilizer
Features	• Chemical Resistant • Good Mold Release • Good Impact Resistance • UV Stabilized
Appearance	• Black
Processing Method	• Injection Molding • Profile Extrusion

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Melt Mass-Flow Rate (MFR)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	0.011	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7000	psi	ASTM D638
Tensile Strength (Break)	7830	psi	ASTM D638
Tensile Elongation (Break)	> 40	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	10	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	180	°F	ASTM D648

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	450 to 480	°F
Middle Temperature	460 to 490	°F
Front Temperature	470 to 500	°F
Nozzle Temperature	460 to 490	°F
Processing (Melt) Temp	470 to 500	°F
Mold Temperature	120 to 170	°F
Back Pressure	50.0 to 100	psi
Screw Speed	25 to 75	rpm

