

AuroraTec™ 41958

Aurora Material Solutions, LLC - Polycarbonate + PET

General Information
Product Description

High Impact, Low Flow Polycarbonate Alloy

Formerly known as EnCounter 41958

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• High Impact Resistance	• Low Flow	
Uses	• Automotive Applications	• Business Equipment	• Thin-walled Parts
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7540	psi	ASTM D638
Tensile Strength (Break)	8000	psi	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Flexural Strength	10000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	12	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	158	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	147	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	150 to 160	°F
Drying Time	6.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 75	%
Rear Temperature	480 to 500	°F
Middle Temperature	490 to 510	°F
Front Temperature	500 to 520	°F
Nozzle Temperature	510 to 520	°F
Processing (Melt) Temp	500 to 520	°F
Mold Temperature	60 to 100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

