

AuroraTec™ 42512IM

Aurora Material Solutions, LLC - Polycarbonate + PET

General Information
Product Description

Impact Modified PC Polyester

Formerly known as EnCounter 42512IM

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Impact Modifier		
Features	• High Impact Resistance	• Impact Modified	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	25	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8000	psi	ASTM D638
Tensile Elongation (Break)	95	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Flexural Strength	12300	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	12	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	251	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	232	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200 to 225	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	470 to 520	°F
Middle Temperature	480 to 530	°F
Front Temperature	495 to 540	°F
Nozzle Temperature	490 to 525	°F
Processing (Melt) Temp	500 to 535	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 75	rpm

