

AuroraGuard™ ENV55-71865

Aurora Material Solutions, LLC - Polycarbonate

General Information

Product Description

AuroraGuard™ ENV55-71865 is a High Viscosity, UV Stabilized, Branched, Black Polycarbonate (PC) Extrusion Grade.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
	• Europe	• North America	
Uses	• Outdoor Applications	• Profiles	• Sheet
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	343000	psi	ASTM D638
Tensile Strength (Yield)	9400	psi	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	334000	psi	ASTM D790
Flexural Strength	13800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	14	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	265	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	230 to 250	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	500 to 530	°F
Cylinder Zone 2 Temp.	500 to 530	°F
Cylinder Zone 3 Temp.	500 to 530	°F
Cylinder Zone 4 Temp.	500 to 530	°F
Cylinder Zone 5 Temp.	500 to 530	°F
Adapter Temperature	500 to 530	°F
Die Temperature	520 to 540	°F

