

AuroraGuard™ 6IM20UW

Aurora Material Solutions, LLC - Polyamide 6

General Information

Product Description

Super Impact Modified, UV Stabilized, Weather Resistant Nylon 6

Formerly known as EnLon 6IM20UW

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Good Weather Resistance	• Heat Stabilized	• Impact Modified
Uses	• Automotive Applications	• Industrial Applications	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Molding Shrinkage - Flow (0.126 in)	0.018 to 0.022	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6800	psi	ASTM D638
Tensile Elongation (Break)	95	%	ASTM D638
Flexural Modulus	245000	psi	ASTM D790
Flexural Strength	9500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	7.0	ft·lb/in	
73°F	19	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	520 to 550	°F
Middle Temperature	530 to 560	°F
Front Temperature	540 to 570	°F
Nozzle Temperature	530 to 560	°F
Processing (Melt) Temp	540 to 570	°F
Mold Temperature	100 to 200	°F

Notes

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

