

OmniLon™ PA6/6 IM8 UV

Celanese Corporation - Polyamide 66

General Information
General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Additive	<ul style="list-style-type: none"> UV Stabilizer
Features	<ul style="list-style-type: none"> High Impact Resistance
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.09		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	8560	psi	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	280000	psi	ASTM D790
Flexural Strength (Break)	10600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	4.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	441	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	165	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.12	%
Rear Temperature	500 to 560	°F
Middle Temperature	520 to 560	°F
Front Temperature	520 to 560	°F
Nozzle Temperature	520 to 560	°F
Processing (Melt) Temp	520 to 560	°F
Mold Temperature	80 to 140	°F
Back Pressure	50.0	psi

