

**DELTRIN 127UV BK701**

Delrin USA, LLC - Acetal (POM) Homopolymer

**General Information**

<b>General</b>			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Mold Release		
		• UV Stabilizer	
Features	• Good Mold Release	• High Viscosity	• UV Stabilized
	• Good Thermal Stability	• Homopolymer	
Uses	• Automotive Applications		
RoHS Compliance	• Contact Manufacturer		
Automotive Specifications	• ASTM D6778 POM0131	• FORD WSS-M4D744-A4	• GM GMP.POM.017
Part Marking Code (ISO 11469)	• >POM<		
Resin ID (ISO 1043)	• POM		

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.42	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	435000	psi	ISO 527-1
Tensile Stress (Yield)	10400	psi	ISO 527-2
Tensile Strain (Yield)	22	%	ISO 527-2
Nominal Tensile Strain at Break	37	%	ISO 527-2
Flexural Modulus	406000	psi	ISO 178
Poisson's Ratio	0.37		
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	4.8	ft·lb/in <sup>2</sup>	
73°F	6.2	ft·lb/in <sup>2</sup>	
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	324	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	198	°F	ISO 75-2/A
Melting Temperature <sup>2</sup>	352	°F	ISO 11357-3
CLTE - Flow	6.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	6.1E-5	in/in/°F	ISO 11359-2
RTI Elec (0.030 in)	122	°F	UL 746B
RTI Imp (0.030 in)	122	°F	UL 746B
RTI Str (0.030 in)	122	°F	UL 746B
Annealing Temperature	320	°F	
Annealing Time - Optional	30.0	min/mm	
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Burning Rate <sup>3</sup> (0.0394 in)	1.0	in/min	ISO 3795
Flame Rating (0.031 in)	HB		UL 94
Flammability Classification (0.03 in)	HB		IEC 60695-11-10, -20
FMVSS Flammability	B		FMVSS 302
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Emission	< 8	ppm	VDA 275
Weather Stability			



delta E	0.400	DIN 53236
grey scale	4.00 to 5.00	ISO 105-A02

### Processing Information

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.20	%
Processing (Melt) Temp	410 to 428	°F
Melt Temperature, Optimum	419	°F
Mold Temperature	176 to 212	°F
Mold Temperature, Optimum	194	°F
Holding Pressure	13100 to 16000	psi
Drying Recommended	yes	
Hold Pressure Time	8.00	s/mm
Maximum Screw Tangential Speed	472	in/min
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	< 0.20	%
Melt Temperature	383 to 401	°F
Extrusion Melt Temperature, Optimum	392	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min

<sup>3</sup> FMVSS 302

