

# ORGALLOY®

## LT 4060 ES BLACK T6L

Orgalloy® LT 4060 ES BLACK T6L resin is a polyamide alloy especially designed for extrusion blow molding. This black grade offers an excellent thermal resistance, cold impact performance and flexibility.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	0.5 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
MECHANICAL PROPERTIES			
Tensile Modulus	570 / 230	MPa	ISO 527-1/-2
	82700 / 33400	psi	
Stress at 50% Strain	22 / 16	MPa	ISO 527-1/-2
	3190 / 2320	psi	
Strain at Break	>50 / >50	%	ISO 527-1/-2
Shore D Hardness, after 15 s	50 / *	-	ISO 868
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	79 / 78	kJ/m <sup>2</sup>	ISO 179/1eA
	37.6 / 37.1	ftlb/in <sup>2</sup>	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 0.45 MPa	60 / *	°C	ISO 75-1/-2
	140 / *	°F	
Vicat Softening Temperature, 50°C/h 50N	62 / *	°C	ISO 306
	144 / *	°F	
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
	0.0630 / *	in	
Burning Behav. at Thickness h	HB / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
	0.1260 / *	in	
ELECTRICAL PROPERTIES			
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption, 23°C, immersion, equilibrium	5 / *	%	ISO 62

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Source: automatically generated TDS from Material Database on 20-02-2024

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Humidity Absorption, 23°C, RH50%, equilibrium	1.1 / *	%	ISO 62
Density	1040 / 1040	kg/m <sup>3</sup>	ISO 1183
	1.04 / 1.04	g/cm <sup>3</sup>	

### MAIN APPLICATIONS:

- Automotive air intake ducts (clean air duct and outside intercooler tube)

### PACKAGING:

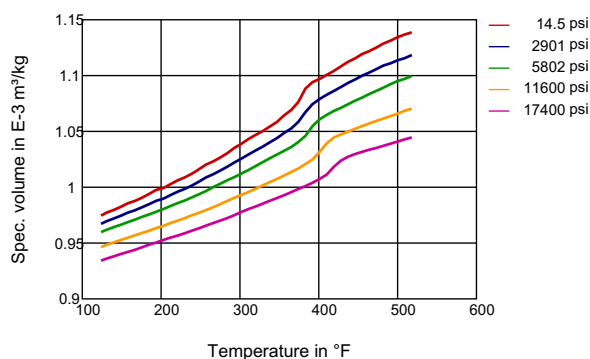
This grade is delivered dried in sealed packaging (25kg bags) ready to be processed.

### SHELF LIFE:

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

### DIAGRAMS

#### SPECIFIC VOLUME-TEMPERATURE (PVT)



#### Processing conditions:

- Drying time (only necessary for bags opened for more than two hours): 4-8 hours at 80°C
- Extrusion melt temperature (min-recommended-max): 250-260-270°C

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<b>DELIVERY FORM</b> Pellets	
<b>SPECIAL CHARACTERISTICS</b> Heat Stabilized, Light Stabilized	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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