



Phone: (517) 295-4196 Fax: (517) 295-4918

Technical Data Sheet

LCA® PET 30GF BLACK

Polyethylene Terephthalate, 30% Glass Fiber Reinforced

Typical Compound Properties	Value / Measure		Test Methods
Physical Properties			
	English Units (ISO)	Metric Units	
Density	1.56 g/cm ³	1.56 g/cm ³	ASTM D-792
Ash Content	30 %	%	ASTM D-5630
Linear Mold Shrinkage	0.0025 in/in	0.0025 mm/mm	ASTM D-955
Mechanical Properties			
Izod Impact - Notched	1.30 ft-lb/in (kJ/m ²)	70 J/m	ASTM D-256
Tensile Strength @ Yield	21,000 psi (Mpa)	145 MPa	ASTM D-638
Tensile Strength @ Break	psi (Mpa)	0 MPa	ASTM D-638
Tensile Elongation @ Yield	%	0 %	ASTM D-638
Tensile Elongation @ Break	2.5 %	2.5 %	ASTM D-638
Flexural Strength @ Yield	31,000 psi (Mpa)	214 MPa	ASTM D-790
Flexural Stress @ Break	psi (Mpa)	0 MPa	ASTM D-790
Flexural Stress @ 5% Strain	psi (Mpa)	0 MPa	ASTM D-790
Flexural Modulus	1,200,000 psi (Mpa)	8,280 MPa	ASTM D-790
Thermal Properties			
DTUL @ 66 psi (455 kPa)	Deg. F	Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	470 Deg. F	243 Deg. C	ASTM D-648
Vicat Softening Temperature	Deg. F	Deg. C	ASTM D-1525

All tests are performed on dry as molded ASTM (ISO) test bars.

General Product Type Information

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the product is used are beyond our control. Therefore, Uniplas, Inc. disclaims any liability for loss or damage incurred in connection with the use of this product.

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Typical Processing Conditions			
Process Variable	Description	Values	
Temperatures		F	C
Barrel	Rear	540 - 560	
	Center	540 - 560	
	Front	550 - 560	
	Nozzle	550 - 600	
	Mold	180 - 240	
Processing Temp	Melt Temp	570 - 620	
Drying			
Type		Dehumidifier	
Temperature		240°F	
Time		3 - 4 hours	
Max. % Moisture		0.2	
Special Requirements			

Optimum processing conditions will depend on such factors as machine size, screw design, part dimension, mold design, runner and gate design, and material residence time. These recommendations are intended only as a guide to achieve stable processing and good part quality.

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