



Phone: (248) 486-1449 Fax: (248) 486-7966

Technical Data Sheet

LCA® PPCO 2020FDA Natural

High Flow Copolymer Polypropylene FDA Compliant

Typical Compound Properties	Value / Measure		Test Methods
Physical Properties			
	English Units (ISO)	Metric Units	
Melt Flow Rate @ 230 / 2.16	20 g/10 min	20 g/10 min	ASTM D-1238 - (ISO 1133)
Density	0.90 g/cm ³	0.90 g/cm ³	ASTM D-792 (ISO 1183)
Ash Content	%	0 %	ASTM D-5630
Linear Mold Shrinkage	in/in	mm/mm	ASTM D-955
Mechanical Properties			
Izod Impact - Notched	2 ft-lb/in (kJ/m)	107 J/m	ASTM D-256 (ISO 108/1A)
Tensile Strength @ Yield	3,200 psi (Mpa)	22 MPa	ASTM D-638 (ISO 527 - 1,2)
Tensile Strength @ Break	psi (Mpa)	0 MPa	ASTM D-638 (ISO 527 - 1,2)
Tensile Elongation @ Yield	6 %	6 %	ASTM D-638 (ISO 527 - 1,2)
Tensile Elongation @ Break	100+ %	100+ %	ASTM D-638 (ISO 527 - 1,2)
Flexural Strength @ Yield	psi (Mpa)	0 MPa	ASTM D-790 (ISO 178)
Flexural Stress @ Break	psi (Mpa)	0 MPa	ASTM D-790 (ISO 178)
Flexural Stress @ 5% Strain	psi (Mpa)	0 MPa	ASTM D-790 (ISO 178)
Flexural Modulus (1.3mm/min), 1% Secant	150,000 psi (Mpa)	1,035 MPa	ASTM D-790 (ISO 178)
Thermal Properties			
DTUL @ 66 psi (455 kPa)	Deg. F	Deg. C	ASTM D-648 (ISO 75 - 1,2)
@ 264 psi (1820 kPa)	Deg. F	Deg. C	ASTM D-648 (ISO 75 - 1,2)
Vicat Softening Temperature	Deg. F	Deg. C	ASTM D-1525 (ISO 306)

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 Barrel	Rear	F 360 - 400	C
	Center	380 - 410	
	Front	400 - 430	
	Nozzle	400 - 430	
	Mold	70 - 120	

Drying

Type
Temperature
Time

Special Requirements

This resin complies with FDA regulation 21 CFR 177.1520 (c) 3.1a

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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