



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)





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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

