



Vectra® T.rex541

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

General Information

Product Description

Extrusion/Thermoforming Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
RoHS Compliance	• Contact Manufacturer		
Processing Method	• Extrusion	• Thermoforming	
Resin ID (ISO 1043)	• LCP		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.74	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.55E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	16000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.2	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.70E+6	psi	ISO 178
Flexural Stress (73°F)	18900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (73°F)	12	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	3.8	ft·lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	473	°F	ISO 75-2/A
Melting Temperature ²	675	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	302	°F
Drying Time	6.0	hr
Suggested Max Moisture	0.010	%

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min