

# VECTRA® S540 - LCP

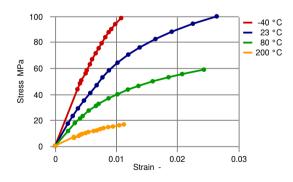
### Description

40% mineral filled grade, low warpage high flow.

40% mineral filled grade, low warpage high flow. Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant FDA compliant UL-Listing V-0 in natural and black at .4mm thickness per UL 94 flame testing. UL = Underwriters Laboratories (USA)

Unit	Test Standard
kg/m³	ISO 1183
%	ISO 294-4, 2577
%	ISO 294-4, 2577
%	ISO 62
Unit	Test Standard
MPa	ISO 527-1, -2
MPa	ISO 527-1, -2
%	ISO 527-1, -2
MPa	ISO 178
MPa	ISO 178
kJ/m²	ISO 179/1eU
kJ/m²	ISO 179/1eA
kJ/m²	ISO 180/1A
kJ/m²	ISO 180/1U
Unit	Test Standard
°C	ISO 11357-1/-3
°C	ISO 75-1, -2
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## **True Stress-strain**



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Typical injection moulding processing conditions

Pre Drying	Value	Unit	
Necessary low maximum residual moisture content	0.01	%	
Drying time	6	h	
Drying temperature	150	°C	
Temperature	Value	Unit	
Hopper temperature	20 - 40	°C	
Feeding zone temperature	60 - 80	°C	
Zone1 temperature	345 - 355	°C	
Zone2 temperature	355 - 365	°C	
Zone3 temperature	365 - 375	°C	
Zone4 temperature	365 - 375	°C	
Nozzle temperature	365 - 375	°C	
Melt temperature	365 - 375	°C	
Mold temperature	80 - 140	°C	
Hot runner temperature	365 - 375	°C	
Pressure	Value	Unit	
Injection pressure	500 - 1500	bar	
Hold pressure	500 - 1500	bar	
Back pressure max.	30	bar	
Speed	Value		
Injection speed	very fast		

#### Other text information

#### **Pre-drying**

VECTRA should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be  $= < -40^{\circ}$  C. The time between drying and processing should be as short as possible.

Characteristics	
Special Characteristics	Flame retardant, High flow, Lead-free soldering, Low warpage
Product Categories	Mineral reinforced
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#### **General Disclaimer**

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this

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