



PEEK Certificate of Analysis

(Certificate conforms to EN 10204:2004, type 3.1)

Batch Number: VPB7115	Grade: 450G
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Property	Test Method	Units	Specification	Result
Melt Viscosity	TM-VX-12	kNs/m ²	0.39 - 0.50	0.45
Melt Stability	TM-VX-12	%	≤ 9	1
Colour	TM-VX-19	-	≤ D	B
Black Speck (Sized Film)	TM-VX-17	sq mm	≤ 0.25	0.00
Black Speck Granule (Average)	TM-VX-11	Count/100g	≤ 5.0	0.0
Tensile Strength	ASTM D638	MPa	≥ 93	97
Tensile Elongation	ASTM D638	%	≥ 50	70
Impact Strength (Notched Izod)	ASTM D256	J/m	≥ 65	89
Flexural Modulus	ASTM D790	GPa	≥ 3.5	4.1
Flexural Strength	ASTM D790	MPa	≥ 147	156
Tensile Strength (at yield)	ISO 527	MPa	≥ 95	98
Tensile Elongation (at break)	ISO 527	%	≥ 25	58
Impact Strength (Notched Izod)	ISO 180	kJ/m ²	≥ 5.4	6.8
Flexural Modulus	ISO 178	GPa	≥ 3.5	3.8
Flexural Strength	ISO 178	MPa	≥ 155	163
Specific Gravity	ASTM D792/ISO 1183	g/cc	1.28 - 1.31	1.29
Moisture Content	TM-VX-38	%	≤ 0.25	0.02
Extraneous Contam	TM-VX-11	-	PASS	Pass
Granule Cut *	TM-VX-11	-	PASS	Pass
Shore D Hardness	ASTM D2240	Pts	82 - 88	86

* Nominal Granule Dimensions and Appearance

- (a) Dimensions, length 2.0 - 4.0 mm, diameter 2.0 - 3.5 mm.
- (b) Granules to be crystalline in appearance and essentially of uniform cut and colour.
- (c) Granules are dusted with a nominal 0.01% Calcium Stearate as a processing lubricant.

THIS BATCH CONFORMS TO SPECIFICATION REF S09

Signed: 
Quality Manager

Date of Manufacture: 22/12/2014

NOT FOR HUMAN IMPLANTATION
NOT FOR BLOOD AND TISSUE CONTACT OF 24 HOURS OR MORE
NOT FOR PERMANENT ORAL/DENTAL CONTACT

FOOD CONTACT GRADE
Manufactured and tested to be compliant with the requirements of FDA regulation 21 C.F.R. 177.2415