

HOSTAFORM® C 9021 LS - POM

Beschreibung

POM-Copolymer Standard-Spritzgießtyp, mit Hilfe von UV Stabilisatoren UV-stabilisierte Spezialeinstellung gute chemische Beständigkeit gegen Lösemittel, Kraftstoffe und starke Alkalien sowie gute Hydrolysebeständigkeit; hoher Widerstand gegen thermischen und oxidativen Abbau. Brenngeschwindigkeit ISO 3795 und FMVSS 302 < 100 mm/min ab 1 mm Dicke.

Physikalische Eigenschaften	Wert	Einheit	Test Standard
Dichte	1410	kg/m ³	ISO 1183
Schmelzevolumenrate, MVR	8	cm ³ /10min	ISO 1133
MVR temperatur	190	°C	ISO 1133
MVR belastung	2,16	kg	ISO 1133
Verarbeitungsschwindung, parallel	2,0	%	ISO 294-4, 2577
Verarbeitungsschwindung, senkrecht	1,8	%	ISO 294-4, 2577
Wasseraufnahme, 23 °C-Sätt	0,65	%	ISO 62
Feuchtaufnahme, 23 °C/50%RH	0,2	%	ISO 62

Mechanische Eigenschaften	Wert	Einheit	Test Standard
Zug-Modul	2850	MPa	ISO 527-2/1A
Streckspannung, 50mm/min	64	MPa	ISO 527-2/1A
Streckdehnung, 50mm/min	9	%	ISO 527-2/1A
Nominelle Bruchdehnung, 50mm/min	30	%	ISO 527-2/1A
Zug-Kriechmodul, 1h	2500	MPa	ISO 899-1
Zug-Kriechmodul, 1000h	1300	MPa	ISO 899-1
Charpy-Schlagzähigkeit, +23 °C	220 ^[P]	kJ/m ²	ISO 179/1eU
Charpy-Schlagzähigkeit, -30 °C	220	kJ/m ²	ISO 179/1eU
Charpy-Kerbschlagzähigkeit, +23 °C	6,5	kJ/m ²	ISO 179/1eA
Charpy-Kerbschlagzähigkeit, -30 °C	6	kJ/m ²	ISO 179/1eA

P: Teilweiser Bruch

Thermische Eigenschaften	Wert	Einheit	Test Standard
Schmelztemperatur, 10 °C/min	166	°C	ISO 11357-1/-3
Formbeständigkeitstemperatur, 1.80 MPa	104	°C	ISO 75-1, -2
Vicat-Erweichungstemperatur, 50 °C/h 50N	150	°C	ISO 306
Längenausdehnungskoeffizient, parallel	1,1	E-4/°C	ISO 11359-2

Elektrische Eigenschaften	Wert	Einheit	Test Standard
Dielektrizitätszahl, 100Hz	4	-	IEC 60250
Dielektrizitätszahl, 1MHz	4	-	IEC 60250
Dielektrischer Verlustfaktor, 100Hz	20	E-4	IEC 60250
Dielektrischer Verlustfaktor, 1MHz	50	E-4	IEC 60250
Spezifischer Durchgangswiderstand	1E12	Ohm*m	IEC 60093
Spezifischer Oberflächenwiderstand	1E14	Ohm	IEC 60093
Elektrische Durchschlagfestigkeit	35	kV/mm	IEC 60243-1
Vergleichszahl der Kriechwegbildung	600	-	IEC 60112

Typische Spitzgußbedingungen

Vortrocknung	Wert	Einheit	Test Standard
Max. zulässige Restfeuchte	0,15	%	-
Trocknungszeit	3 - 4	h	-
Trocknungstemperatur	100 - 120	°C	-
Verarbeitungstemperaturen	Wert	Einheit	Test Standard
Trichtertemperatur	20 - 30	°C	-
Temperatur in der Einzugszone	60 - 80	°C	-
Zone1 Temperatur	170 - 180	°C	-
Zone2 Temperatur	180 - 190	°C	-
Zone3 Temperatur	190 - 200	°C	-

HOSTAFORM® C 9021 LS - POM

Zone4 Temperatur	190 - 210	°C	-
Massetemperatur	190 - 210	°C	-
Verarbeitungsdrücke	Wert	Einheit	Test Standard
Staudruck	40	bar	-
Verarbeitungsgeschwindigkeiten	Wert	Einheit	Test Standard
Einspritzgeschwindigkeit	slow-medium	-	-
Schneckendrehzahlen	Wert	Einheit	Test Standard
Schneckendrehzahl, 25mm	150	RPM	-
Schneckendrehzahl, 40mm	100	RPM	-
Schneckendrehzahl, 55mm	70	RPM	-

Weitere Informationen

Pre-drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

Spritzgießen

Auf handelsüblichen Spritzgießmaschinen mit 15-25 D langen Dreizonen-Schnecken verarbeitbar.

Merkmale

Besondere Kennwerte

Lichtstabilisiert, UV resistent

Lieferformen

Granulat

Verarbeitungsmethoden

Spritzgießen

Additive

Entformungshilfsmittel

Kontakt

Americas

8040 Dixie Highway
Florence, KY 41042 USA
Product Information Service
t: +1-800-833-4882
t: +1-859-372-3244
Customer Service
t: +1-800-526-4960
t: +1-859-372-3214
e: info-engineeredmaterials-am@celanese.com

Asia

4560 Jinke Road
Zhang Jiang Hi Tech Park
Shanghai 201203 PRC
Customer Service
t: +86 21 3861 9266
f: +86 21 3861 9599
e: info-engineeredmaterials-asia@celanese.com

Europe

Am Unisys-Park 1
65843 Sulzbach, Germany
Product Information Service
t: +49-800-86427-531
t: +49-(0)-69-45009-1011
e: info-engineeredmaterials-eu@celanese.com

Allgemeine Haftungsausschlußklärung

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 publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek

HOSTAFORM® C 9021 LS - POM

and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products. The products mentioned herein are not intended for use in medical or dental implants.

Trademark

© 2014 Celanese or its affiliates. All rights reserved. (Published 27.July.2016). Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.