

CELANEX® 5205HG | PET | Glass Reinforced

Description

Celanex 5205HG is a 15% glass-filled polyester featuring super high surface gloss and high flow for long flow channels. A typical application is oven handles.

Physical properties	Value	Unit	Test Standard
Density	1450	kg/m ³	ISO 1183
Mold shrinkage - parallel	0.4-0.6	%	ISO 294-4

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	6400	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	95	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	1.8	%	ISO 527-2/1A
Flexural modulus (23°C)	6300	MPa	ISO 178
Flexural strength (23°C)	135	MPa	ISO 178
Charpy notched impact strength @ 23°C	4.7	kJ/m ²	ISO 179/1eA
Notched impact strength (Izod) @ 23°C	4.5	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
DTUL @ 1.8 MPa	180	°C	ISO 75-1/-2
DTUL @ 0.45 MPa	220	°C	ISO 75-1/-2
Flammability at thickness h	HB	class	UL94
thickness tested (h)	0.8	mm	UL94

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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.

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We strongly recommend that users seek 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 (+49 (0) 69 30516299 for Europe and +1 859-372-3244 for the Americas) 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.

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