



IEC 60243-1

CELANEX® 1602Z

Lubricated extrusion grade

Celanex 1602Z is an internally lubricated, general purpose, unreinforced polybutylene terephthalate with a good balance of mechanical properties and processability.

Rheological properties

Electric strength

nneological properties			
Melt mass-flow rate	13	g/10min	ISO 1133
Melt mass-flow rate, Temperature	250	•	
Melt mass-flow rate, Load	2.16	kg	
Moulding shrinkage range, parallel	1.8 - 2.0	-	ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	2550		ISO 527-1/-2
Yield stress, 50mm/min		MPa	ISO 527-1/-2
Yield strain, 50mm/min	5	%	ISO 527-1/-2
Stress at 50% strain		MPa	ISO 527-1/-2
Nominal strain at break	>50		ISO 527-1/-2
Flexural Modulus	2200		ISO 178
Flexural Strength		MPa	ISO 178
Charpy impact strength, 23°C		kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C		kJ/m²	ISO 180/1A
Hardness, Rockwell, M-scale	72		ISO 2039-2
Thermal properties			
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa		°C	ISO 75-1/-2
Temp. of deflection under load, 1.6 MPa	150		ISO 75-1/-2
Coeff. of linear therm. expansion, parallel		E-6/K	ISO 11359-1/-2
Oben. Of linear therm. expansion, parallel	110	L-0/IX	100 11009-1/-2
Flammability			
Burning Behav. at thickness h	НВ	class	UL 94
Thickness tested	0.75	mm	UL 94
Electrical properties			
Relative permittivity, 100Hz	4		IEC 62631-2-1
Relative permittivity, 1MHz	3.5		IEC 62631-2-1
Dissipation factor, 100Hz		E-4	IEC 62631-2-1
Dissipation factor, 1MHz		E-4	IEC 62631-2-1
Volume resistivity		Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2

23 kV/mm

(+) 18816996168 Ponciplastics.com



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Comparative tracking index PLC 0 PLC UL 746A

Other properties

Density 1310 kg/m³ ISO 1183

Injection

Drying Temperature 120 - 130 °C
Drying Time, Dehumidified Dryer 4 h
Processing Moisture Content 0.02 %
Max. mould temperature 65 - 93 °C
Back pressure MPa
Injection speed medium-fast

Characteristics

Additives Release agent

Additional information

Injection molding

Injection speed, injection pressure and holding pressure have to be optimized to the individual article geometry. To avoid material degradation during processing low back pressure and minimum screw speed have to be used. Overheating of the material has to be avoided. Up to 25% clean and dry regrind may be used.

Processing Texts

Pre-drying

To avoid hydrolytic degradation during processing, CELANEX resins have to be dried to a moisture level equal to or less than 0.02% prior to processing. Drying should be done in a dehumidifying hopper dryer capable of dewpoints <-40°F (-40°C). Typical drying conditions are 250°F (121°C) for 4 hours. For subsequent storage of material in the dryer until processed, drying temperature should be lowered to 100 deg C and material should not kept in dryer for more than 60 hrs.

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Other Approvals

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OEM	Specification	Additional Information
Stellantis - Chrysler	CPN 2367	Natural
Stellantis - Chrysler	CPN 2442	Black
Stellantis - Chrysler	CPN 4478	Natural





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Stellantis - Chrysler	CPN 4479	Black
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