

CELANEX[®] 6402 ECO-R

40% glass-fiber / mineral filled PBT+PET blend; with 25% post consumer recycled content; reduced warpage Celanex 6402® ECO-R is a 40% Glass/ mineral filled polyester with 25% Post Consumer Recycled content. It is available in natural, black and various colors including metallic colors.

Product information

Part Marking Code	(PBT+PET)-(GF+MD)40		ISO 11469
Rheological properties			
Melt mass-flow rate Melt mass-flow rate, Temperature Melt mass-flow rate, Load	22 265 2.16	-	ISO 1133
Moulding shrinkage range, parallel Moulding shrinkage range, normal	0.1 - 0.2 0.4 - 0.6	%	ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus Stress at break, 5mm/min Strain at break, 5mm/min Flexural Modulus Flexural Strength Charpy notched impact strength, 23°C	2.1 12500 220	MPa %	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA
Thermal properties			
Temp. of deflection under load, 1.8 MPa	205	°C	ISO 75-1/-2
Other properties			
Density	1660	kg/m³	ISO 1183
Injection			
Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Max. mould temperature Back pressure	121 4 0.02 260 65 - 93	h % °C	Internal

Characteristics

Additives

Release agent, Contains Recycle

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Additional information

Injection molding

Rear Temperature 450-480 (230-250) deg F (deg C) Center Temperature 460-490(235-255) deg F (deg C) Front Temperature 470-500 (240-260) deg F (deg C) Nozzle Temperature 480-510 (250-265) deg F (deg C) Melt Temperature 460-510 (235-265) deg F (deg C) Mold Temperature 150-200(65-93) deg F (deg C) Back Pressure 0-50 psi Screw Speed Medium Injection Speed Fast

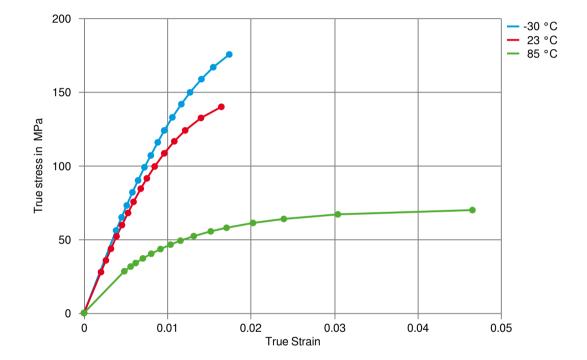
Injection speed, injection pressure and holding pressure have to be optimized to the individual article geometry. To avoid material degradation during processing low back pressure and minimum screw speed have to be used. Overheating of the material has to be avoided, in particular for flame retardant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





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True stress-strain



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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%. Drying should be done in a dehumidifying hopper dryer capable of dewpoints <-40 °F (-40 °C) at 250°F (121°C) for 4 hours.			
Longer pre-drying times/storage	For subsequent storage of the material in the dryer until processed (<= 60 h) it is necessary to lower the temperature to 100 ° C.			
Injection molding	Rear Temperature 450-480 (230-250) deg F (deg C) Center Temperature 460-490(235-255) deg F (deg C) Front Temperature 470-500 (240-260) deg F (deg C) Nozzle Temperature 480-510 (250-265) deg F (deg C) Melt Temperature 460-510 (235-265) deg F (deg C) Mold Temperature 150-200(65-93) deg F (deg C) Back Pressure 0-50 psi Screw Speed Medium Injection Speed Fast 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, in particular for flame retardant grades. Up to 25% clean and dry regrind may be used.			
Injection molding Preprocessing	To avoid hydrolytic degradation during processing, CELANEX resins have to be dried to a moisture level equal to or less than 0.02%. Drying should be done in a dehumidifying hopper dryer capable of dewpoints <-30°F (-34°C) at 250°F (121°C) for minimum 4 hours.			
Other Approvals				
Other Approvals	OEM	Specification	Additional Information	
	Ford	WRS-M4D625-A3	Natural, Black, Standard colors	

GMW16873P-PBT+PET- Natural & Black

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