

Celanex® 6407

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Celanex 6407 is a 30% glass/mineral reinforced resin particularly suited for large exterior automotive components, where extended flow, flatness and good surface appearance is essential.

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Filler / Reinforcement	• Glass\Mineral, 30% Filler I	by Weight	
Features	 Pleasing Surface Appeara 	nce	
Uses	 Automotive Applications 	 Automotive Exterior Parts 	
RoHS Compliance	 Contact Manufacturer 		
	CHRYSLER MS_DB_400	GM GMP PRT+PET 010 Cold	or: • GM GMP PRT+PET 010 Color

Automotive Specifications CPN3669 Color: Black Black Natural

ASTM & ISO Properties 1

ASTIVI &	130 Properties		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	21	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.30 to 0.60	%	
Water Absorption (Saturation, 73°F)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.16E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	12300	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.16E+6	psi	ISO 178
Flexural Stress (73°F)	20300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in²	ISO 179/1eA
Notched Izod Impact Strength (73°F)	3.0	ft·lb/in²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	408	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	342	°F	ISO 75-2/A
CLTE - Flow	1.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	3.9E-5	in/in/°F	ISO 11359-2

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Nominal Value Unit
248 to 266 °F
4.0 hr
0.020 %
68 to 122 °F
446 to 482 °F



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Injection	Nominal Value Unit
Middle Temperature	455 to 491 °F
Front Temperature	455 to 491 °F
Nozzle Temperature	482 to 509 °F
Processing (Melt) Temp	455 to 509 °F
Mold Temperature	149 to 205 °F
Injection Rate	Moderate-Fast
Injection Notes	

Die Temperature: 240 to 265°C Feed Temperature: 230 to 250°C Zone 4 Temperature: 240 to 265°C

Notes



¹ Typical properties: these are not to be construed as specifications.