

Celanex® 2002-3

RoHS Compliance

Automotive Specifications

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

• GM GMP.PBT.001 Color:

Natural

General Information				
Product Description				
	ourpose, unreinforced polybutylene terepht flow material that contains an internal lubric	halate with a good balance of mechanical properties and processability.		
General				
Material Status	Commercial: Active			
Availability	• Europe	North America		
Additive	Lubricant			
Features	General PurposeGood Processability	LubricatedMedium Flow		
Uses	General Purpose			

GM GMP.PBT.001 Color: Black

Contact ManufacturerCHRYSLER MS-DB-400

Match

CPN4175 Color: 100% Color

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	1.31	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	20	cm³/10min	ISO 1133	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.25	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	363000	psi	ISO 527-2/1A/1	
Tensile Stress (Yield)	8700	psi	ISO 527-2/1A/50	
Tensile Strain (Yield)	4.0	%	ISO 527-2/1A/50	
Tensile Strain (Break)	> 50	%	ISO 527-2/1A/50	
Flexural Modulus (73°F)	363000	psi	ISO 178	
Flexural Stress (73°F)	11600	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	2.9	ft·lb/in²		
73°F	2.9	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	90	ft·lb/in²		
73°F	No Break			
Notched Izod Impact Strength			ISO 180/1A	
-22°F	2.6	ft·lb/in²		
73°F	2.6	ft·lb/in²		
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (66 psi, Unannealed)	302	°F	ISO 75-2/B	
Heat Deflection Temperature (264 psi, Unannealed)	131	°F	ISO 75-2/A	
Vicat Softening Temperature	374	°F	ISO 306/B50	
CLTE - Flow	7.2E-5	in/in/°F	ISO 11359-2	
CLTE - Transverse	6.7E-5	in/in/°F	ISO 11359-2	



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Processing Information				
Injection	Nominal Value Unit			
Drying Temperature	248 to 266 °F			
Drying Time	4.0 hr			
Suggested Max Moisture	0.020 %			
Hopper Temperature	68 to 122 °F			
Rear Temperature	446 to 464 °F			
Middle Temperature	455 to 482 °F			
Front Temperature	455 to 482 °F			
Nozzle Temperature	482 to 500 °F			
Processing (Melt) Temp	455 to 500 °F			
Mold Temperature	149 to 199 °F			
Injection Rate	Moderate-Fast			

Manifold Temperature: 250 to 260°C
Zone 4 Temperature: 240 to 260°C
Feed Temperature: 230 to 240°C

Notes

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