

# CALIBRE™ 301EP-37

Polycarbonate Resin

Trinseo

## Message:

CALIBRE 301EP-37 HC77010023 Polycarbonate Resin is a very high flow material designed for complex or thin-walled injection molded parts. It is useful for parts that require good surface finish, such as reflectors in lighting applications. It contains some mold release for easier release during molding. This polycarbonate material is designed for applications that use in vacuum metalized processes.

### Main Characteristics

Hi flow, easy processing material

Good surface aesthetics

Mold release

### Applications

Injection molding applications

Vacuum metalized applications

Reflectors

General Information			
Additive	Mold Release		
Features	Good Mold Release		
	Good Processability		
	Good Surface Finish		
	High Flow		
Uses	Lighting Applications		
	Reflectors		
	Thin-walled Parts		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792, ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	37	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.60 to 0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	2410	MPa	ASTM D638
Tensile Strength (Yield)	58.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.5	%	
Break	85	%	

Flexural Modulus	2370	MPa	ASTM D790
Flexural Strength	90.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	440	J/m	
23°C	530	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	122	°C	ASTM D648
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-2		
NOTE			
1.	50 mm/min		

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#### Recommended distributors for this material

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