

CALIBRE™ IM 401-11

Polycarbonate Resin
Trinseo

Message:

CALIBRE™ IM 401-11 Impact Modified Polycarbonate resin is available in opaque formulations that offer benefits ranging from superior low temperature impact strength to easy processing with improved impact strength in highly filled formulations.

Main Characteristics:

- Impact modified
- Superior low temperature toughness

Applications:

- Automotive interiors
- Automotive exteriors
- Small & large applications

General Information			
UL YellowCard	E54680-469988		
Additive	Impact Modifier		
Features	Good Processability		
	Good Toughness		
	Impact Modified		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Interior Parts		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Tensile Stress vs. Strain (ASTM D638)		
	Viscosity vs. Shear Rate (ASTM D3835)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.60 to 0.80	%	ASTM D955, ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	55.8	MPa	ASTM D638
Yield	56.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	130	%	ASTM D638
Break	130	%	ISO 527-2/50

Flexural Modulus			
-- ³	2280	MPa	ASTM D790
--	2270	MPa	ISO 178
Flexural Strength			
-- ⁴	89.6	MPa	ASTM D790
--	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	690	J/m	ASTM D256, ISO 180/4A
Instrumented Dart Impact ⁵ (23°C, Total Energy)	56.5	J	ASTM D3763
Tensile Impact Strength	630	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648, ISO 75-2/A
1.8 MPa, Unannealed	121	°C	
1.8 MPa, Annealed	136	°C	
Vicat Softening Temperature	146	°C	ISO 306/B50, ASTM D1525 ⁶
Flammability	Nominal Value		Test Method
Flame Rating ⁷			UL 94
1.59 mm	HB		
3.20 mm	HB		
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Method I (3 point load), 2.0 mm/min		
4.	Method I (3 point load), 2.0 mm/min		
5.	3.39 m/sec		
6.	Rate A (50°C/h), Loading 2 (50 N)		
7.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

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