



CALIBRE™ 1602 LTD

Trinseo - Polycarbonate Resin

Tuesday, November 5, 2019

General Information

Product Description

CALIBRE™ 1602 LTD Polycarbonate Resin is designed to have good low temperature impact resistance compared to standard polycarbonate. The material has improved impact performance after heat aging relative to standard polycarbonate. The polymer features a good balance of mechanical properties.

Main Characteristics

- Long-term impact performance
- Good low temperature impact resistance
- UV stabilizer and mold release

Applications

- Injection molding applications
- Opaque applications
- Durables, Mining hats

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Mold Release • UV Stabilizer
Features	• Heat Aging Resistant • High Impact Resistance • Low Temperature Impact Resistance
Uses	• Safety Helmets
Appearance	• Opaque
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Density	1.18	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (300°C/1.2 kg)	6.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	280000	psi	ASTM D638
Tensile Strength ² (Yield)	8250	psi	ASTM D638
Flexural Modulus	298000	psi	ASTM D790
Flexural Strength	11300	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	8.9	ft-lb/in	
73°F	10	ft-lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Annealed)	277	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	251	°F	ASTM D648

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Notes

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

² 2.0 in/min