

CALIBRE™ 1602 LTD

Polycarbonate Resin

Trinseo

Message:

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 Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Good Heat Aging Resistance		
	High Impact Resistance		
	Low Temperature Impact Resistance		
Uses	Safety Helmets		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
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)	6.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1930	MPa	ASTM D638
Tensile Strength ² (Yield)	56.9	MPa	ASTM D638
Flexural Modulus	2050	MPa	ASTM D790
Flexural Strength	78.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	480	J/m	
23°C	540	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed	136	°C	
1.8 MPa, Unannealed	122	°C	

NOTE

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| 1. | 50 mm/min |
| 2. | 50 mm/min |

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