CALIBRE™ 1602 LTD

Trinseo - Polycarbonate Resin

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. This material is opaque in color.

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			
Additive	• Impact Modifier	• Mold Release	• UV Stabilizer
Features	• Heat Aging Resistant	• High Impact Resistance	• Low Temperature Impact Resistance
Uses	• Low Temperature Applications	• Mining Applications	
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.17		ASTM D792
Density	1.17	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (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
Water Absorption (Saturation, 73°F)	0.32	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.12	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	8250	psi	ASTM D638
Flexural Modulus	297000	psi	ASTM D790
Flexural Strength	11300	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°F	9.0	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			ASTM D648
264 psi, Unannealed	239	°F	
Deflection Temperature Under Load (264 psi, Annealed)	270	°F	ASTM D648

CALIBRE™ 1602 LTD

Trinseo - Polycarbonate Resin

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0	hr

Notes

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

[2] 2.0 in/min