TRINSEO™

CALIBRE™ 300-30
Polycarbonate Resin

Overview

CALIBRE™ 300-30 polycarbonate resins offer very high flow with excellent impact resistance, heat distortion resistance and optical clarity. CALIBRE 300-30 contains no mold release or UV stabilizer and is available in natural transparent colour only.

Govt. and Industry Standards:

- Underwriters Laboratory, Inc. (UL)

Applications:

- Blending
- Compounding

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.20	g/cm³	1.20	g/cm³	ASTM D792 ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	30	g/10 min	30	g/10 min	ASTM D1238 ISO 1133
Water Absorption					ISO 62
Saturation, 73°F (23°C)	0.32	%	0.32	%	
Equilibrium, 73°F (23°C), 50% RH	0.12	%	0.12	%	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus	334000	psi	2300	MPa	ISO 527-1/1
Tensile Stress					ISO 527-2/50
Yield	8700	psi	60.0	MPa	
Break	9430	psi	65.0	MPa	
Tensile Strain					ISO 527-2/50
Yield	6.0	%	6.0	%	
Break	110	%	110	%	
Flexural Modulus [1]	348000	psi	2400	MPa	ISO 178
Flexural Stress [1]	14100	psi	97.0	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	5.2	ft·lb/in²	11	kJ/m²	
73°F (23°C)	7.1	ft·lb/in²	15	kJ/m²	
Notched Izod Impact					
73°F (23°C)	11	ft·lb/in	580	J/m	ASTM D256
73°F (23°C)	33	ft·lb/in²	69	kJ/m²	ISO 180/A
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ISO 75-2/A
264 psi (1.8 MPa), Unannealed	250	°F	121	°C	
Vicat Softening Temperature	293	°F	145	°C	ISO 306/B50
Optical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Refractive Index	1.586		1.586		ISO 489
Light Transmittance (118.1 mil (3000 µm))	87.0 to 91.0	%	87.0 to 91.0	%	ASTM D1003
Haze	< 1.00	%	< 1.00	%	ASTM D1003