CALIBRE™ 300-3
Polycarbonate Resin

Overview

CALIBRE™ 300-3 polycarbonate resins offer exceptional impact resistance, heat distortion resistance and optical clarity as well as high melt strength for various extrusion processes. CALIBRE 300-3 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
- Sheet, film and profile extrusion

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)	3.0	g/10 min	3.0	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	10400	psi	72.0	MPa	
Tensile Strain					ISO 527-2/50
Yield	6.0	%	6.0	%	
Break	150	%	150	%	
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)	6.7	ft·lb/in²	14	kJ/m²	
73°F (23°C)	36	ft·lb/in²	75	kJ/m²	
Notched Izod Impact					
73°F (23°C)	18	ft·lb/in	960	J/m	ASTM D256
73°F (23°C)	44	ft·lb/in²	93	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	259	°F	126	°C	
Vicat Softening Temperature	309	°F	154	°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