

CALIBRE™ 302EP-35

Polycarbonate Resin

Trinseo

Message:

CALIBRE™ 302EP-35 is a high flow, UV stabilized polycarbonate resin with excellent heat resistance and optical clarity.

Main Characteristics

High Flow

UV Stabilized

High Heat Resistance

Applications

Film

General Information			
Additive	UV Stabilizer		
Features	High Clarity		
	High Flow		
	High Heat Resistance		
Uses	Film		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C, 50% RH	0.32	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	62.1	MPa	
Break	48.3	MPa	
Tensile Elongation ²			ASTM D638
Yield	5.7	%	
Break	81	%	
Flexural Modulus ³	2450	MPa	ASTM D790
Flexural Strength ⁴	95.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Instrumented Dart Impact ⁵ (23°C, Total Energy)	62.1	J	ASTM D3763

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	137	°C	
1.8 MPa, Unannealed	122	°C	
Vicat Softening Temperature	146	°C	ASTM D1525 ⁶
Optical	Nominal Value	Unit	Test Method
Transmittance (1000 μm)	89.0	%	ASTM D1003
Haze (1000 μm)	0.60	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		
5.	3.39 m/sec		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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