CALIBRE™ 351-22

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

CALIBRE™ 350 series are steam resistant grades suitable for applications used in high humid / high temperature environments such as bathroom light covers.

General Information			
UL YellowCard	E123529-577630		
Additive	demoulding		
Features	Moisture proof Heat resistance, high Steam resistance Good demoulding performance		
Uses	Bathroom accessories		
Part Marking Code	>PC		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	22.0	cm³/10min	ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.50 - 0.70	%	ASTM D955
Transverse flow	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Strength			
--	62.0	MPa	ASTM D638
--	60.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	130	%	ASTM D638
Fracture	110	%	ISO 527-2
Flexural Modulus			
--	2200	MPa	ASTM D790
--	2300	MPa	ISO 178
Flexural Strength			
--	89.0	MPa	ASTM D790
--	85.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	60	kJ/m^2	ISO 179
Notched Izod Impact (23°C)	740	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, not annealed	139	°C	ASTM D648
1.8 MPa, not annealed	134	°C	ASTM D648
1.8 MPa, not annealed	126	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM D696
Flow	7.0E-5	cm/cm/°C	ASTM D696
Lateral	7.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Dielectric Strength	20	kV/mm	ASTM D149
Arc Resistance	110	sec	ASTM D495
Comparative Tracking Index	300	V	IEC 60112
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.585		ASTM D542
Transmittance	89.0	%	ASTM D1003

Recommended distributors for this material

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