

CALIBRE™ 301V-15

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

CALIBRE™ 300 series are general purpose grades. These grades have a good balance of heat resistance and impact resistance. This series include some modified versions for better mold release property and weather resistant property, thus this series could cover a broad range of applications including extruded sheets, electronic parts, stationery, mobile equipment and other miscellaneous applications.

General Information			
Additive	demoulding		
Features	General		
	Good demoulding performance		
Uses	Electrical components		
	Sheet		
	Stationery		
Processing Method	Sheet extrusion molding		
Part Marking Code	>PC		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	15.0	cm ³ /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)	70	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	840	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	140	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.44 mm	V-2		UL 94
0.75 mm	V-2		UL 94
1.5 mm	V-2		UL 94
3.0 mm	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance	89.0	%	ASTM D1003

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