

DURANEX® 457EV

Polycarbonate + PBT

Polyplastics Co., Ltd.

Message:

Unfilled, Flame Retardant, Higher Comparative Tracking

General Information			
Additive	Flame retardancy		
Features	Impact resistance, high		
	Flame retardancy		
UL File Number	E213445		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PBT+PC-I-FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	46.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	13	%	ISO 527-2
Flexural Modulus	1970	MPa	ISO 178
Flexural Stress	73.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	21	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	9.0E-5	cm/cm/°C	Internal method
Lateral: 23 to 55°C	1.0E-4	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+14	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	20	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Additional Information	Nominal Value		
Color Number	EF2001/ED3002		
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	3.0 - 5.0	hr	

Processing (Melt) Temp	250 - 270	°C
Mold Temperature	40.0 - 80.0	°C
Holding Pressure	60.0 - 100	MPa
Screw Speed	100 - 150	rpm

Injection instructions

Cooling Time: Plasticization time + alpha or time without sticking in mold

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