

BESTPOLUX PCX-01

Polycarbonate

Triesa Plastics

Message:

PC natural lubricated with V-0 quality is characterized for good flame retardant quality and injection behaviour.

General Information			
Additive	Lubricant		
Features	Workability, good		
	Lubrication		
	Flame retardancy		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Molding Shrinkage	0.50	%	
Water Absorption (23°C, 24 hr)	0.24	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield)	66.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-40°C	No Break		ISO 179
23°C	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	140	°C	ISO 75-2/B
1.8 MPa, not annealed	125	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+15	ohms	IEC 60093
Comparative Tracking Index	225	kV/mm	IEC 60112
Flame Resistance	Yes,		
Flammability	Nominal Value	Unit	Test Method

Flame Rating	V-0	UL 94
Glow Wire Ignition Temperature	960	°C IEC 60695-2-13
Additional Information		
Humidity Pellets, ISO 1110: 0.2%Flammability Speed, FMV 302:<100 mm/min		
Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	2.0 - 4.0	hr
Processing (Melt) Temp	260 - 280	°C
Mold Temperature	80.0 - 90.0	°C

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