

Tecotek® PC40 NL VB02

Polycarbonate + PBT
Eurotec Engineering Plastics

Message:
PC/PBT, unfilled, UV stabilized, high impact, natural

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance		
	High Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	(PC+PBT)-I		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	1.0	%	
Flow	1.0	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Moisture Content	< 0.10	%	ISO 960
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2250	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	55.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	25	kJ/m²	
23°C	55	kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A

Vicat Softening Temperature	125	°C	ISO 306/B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.60 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0 to 4.0	hr	
Hopper Temperature	60.0 to 80.0	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Rate	Moderate-Fast		
Holding Pressure	50.0 to 100	MPa	

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