

Experimental XU 73120.00 Advanced Resin

Overview

XU 73120.00 Experimental Polycarbonate Resin is a high flow ignition resistant PC blend that contains no chlorinated or brominated additives. This resin is specifically designed to offer enhanced aesthetics and superior processing which makes it ideal for injection molding of large, thin-wall, or intricate parts. XU 73120.00 Experimental Polycarbonate Resin is suitable for use in a wide variety of applications in the Information Technology Equipment & Consumer Electronics industries.

Applications:

- LCD TV Enclosures
- Monitors and PC Enclosures

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.18 g/cm ³	1.18 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18 g/10 min	18 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			ASTM D638
0.126 in (3.20 mm), Injection Molded	388000 psi	2680 MPa	
Tensile Strength			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	9400 psi	64.8 MPa	
Break, 0.126 in (3.20 mm), Injection Molded	9480 psi	65.3 MPa	
Tensile Elongation			ASTM D638
Break, 0.126 in (3.20 mm), Injection Molded	49 %	49 %	
Flexural Modulus			ASTM D790
0.126 in (3.20 mm), Injection Molded	391000 psi	2700 MPa	
Flexural Strength			ASTM D790
0.126 in (3.20 mm), Compression Molded	13800 psi	95.1 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength	4.8 ft-lb/in ²	10 kJ/m ²	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	199 °F	92.8 °C	
264 psi (1.8 MPa), Unannealed	181 °F	82.8 °C	
Vicat Softening Temperature	237 °F	114 °C	ASTM D1525 ¹
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ²			UL 94
0.06 in (1.5 mm), Black	V-0	V-0	
0.08 in (2.0 mm), All Colors	V-0	V-0	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	225 °F	107 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	460 to 540 °F	238 to 282 °C	
Mold Temperature	100 to 190 °F	38 to 88 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Rate B (120°C/h), Loading 1 (10 N)

² This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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