TRINSEO™

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/cm³	1.18	g/cm³	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/in²	10	kJ/m²	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