Technical Data Sheet

Polyman PCxxxxi6FRUL

Polycarbonate
LyondellBasell Industries
Engineering Plastics

Product Description
Medium Viscosity, UV Stabilized, PC with Mold Release

General		
Features	• Good Mold Release	• UV Stabilized
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm³	1.20 g/cm³	ISO 1183/A
Water Absorption (Saturation, 73°f (23°c))	0.24 %	0.24 %	ISO 62
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	348000 psi	2400 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	8850 psi	61.0 MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	5.6 %	5.6 %	
Break	> 100 %	> 100 %	
Flexural Modulus	334000 psi	2300 MPa	ISO 178
Flexural Stress	13500 psi	93.0 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°f (23°c))	36 ft·lb/in²	76 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°f (23°c)	No Break	No Break	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	289 °F	143 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	264 °F	129 °C	ISO 75-2/Af
RTI Elec (0.03 To 0.07 In (0.8 To 1.8 Mm))	176 °F	80.0 °C	UL 746B
RTI Imp (0.03 To 0.07 In (0.8 To 1.8 Mm))	176 °F	80.0 °C	UL 746B
RTI Str (0.03 To 0.07 In (0.8 To 1.8 Mm))	176 °F	80.0 °C	UL 746B
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Comparative Tracking Index (CTI)	PLC 0	PLC 0	UL 746A
High Amp Arc Ignition (HAI)			UL 746A
0.03 To 0.07 In (0.8 To 1.8 Mm)	PLC 2	PLC 2	
Hot-wire Ignition (HWI)			UL 746A
0.03 To 0.07 In (0.8 To 1.8 Mm)	PLC 4	PLC 4	
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
0.03 To 0.07 In (0.8 To 1.8 Mm)	V-2	V-2	

Additional Information
1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

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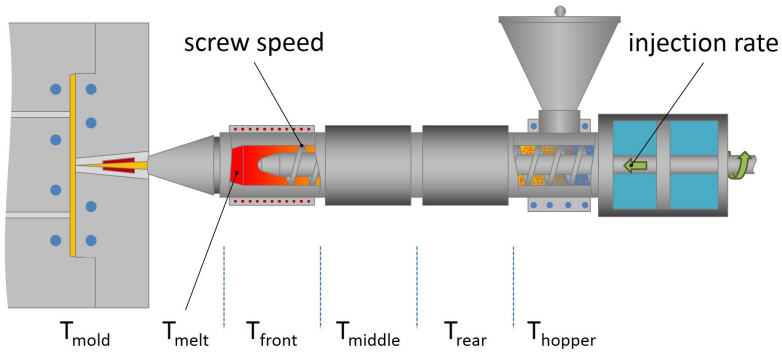

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature - Desiccant Dryer	248 °F	120 °C
Drying Time	4.0 to 8.0 hr	4.0 to 8.0 hr
Suggested Max Moisture	< 0.02 %	< 0.02 %
Rear Temperature	518 to 572 °F	270 to 300 °C
Middle Temperature	518 to 572 °F	270 to 300 °C
Front Temperature	518 to 572 °F	270 to 300 °C
Nozzle Temperature	518 to 572 °F	270 to 300 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

Notes

These are typical property values not to be construed as specification limits.