

Ultraform® S 2320 0035 LEV

Polyoxymethylene

Product Description

Ultraform S 2320 0035 LEV is designed to achieve low emission and smell

PHYSICAL	ISO Test Method	Property Value
Density, g/cm	1183	1.40
Moisture, %	62	
RHEOLOGICAL	ISO Test Method	Property Value
Melt Volume Rate (- C/- Kg), cc/10min.	1133	11
MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23C		2,450
Tensile stress at yield, MPa	527	
23C		63
Tensile stress at break, MPa	527	
Tensile strain at yield, %	527	
23C		11
Nominal strain at break, %	527	
23C		32
Flexural Strength, MPa	178	
Flexural Modulus, MPa	178	
Tensile Creep Modulus (1000h), MPa	899	1,000
IMPACT	ISO Test Method	Property Value
Izod Notched Impact, kJ/m ²	180	
Charpy Notched, kJ/m ²	179	
23C		6.5
-30C		6
Charpy Unnotched, kJ/m ²	179	
23C		250
-30C		210
THERMAL	ISO Test Method	Property Value
Melting Point, C	3146	167
HDT A, C	75	95
ELECTRICAL	ISO Test Method	Property Value
Comparative Tracking Index	IEC 60112	600
Volume Resistivity	IEC 60093	1E13
Surface Resistivity	IEC 60093	1E15
Dielectric Constant (1 MHz)	IEC 60250	3.8
Dissipation Factor (1 MHz)	IEC 60250	60

Processing Guidelines

Material Handling

Max. Water content: 0.15%



Product is supplied in polyethylene bags and drying prior to molding is not required. However, after relatively long storage or when handling material from previously opened containers, preliminary drying is recommended in order to remove any moisture which has been absorbed. If drying is required, a dehumidifying or desiccant dryer operating at 80 - 110 degC (176 - 230 degF) is recommended. Drying time is dependent on moisture level, but 2-4 hours is generally sufficient. Further information concerning safe handling procedures can be obtained from the Material Safety Data Sheet. Alternatively, please contact your BASF representative.

Typical Profile

Melt Temperature 190-230 degC (375-446 degF)
Mold Temperature 60-120 degC (140-248 degF)
Injection and Packing Pressure 35-70 bar (500-1000psi)

Mold Temperatures

A mold temperature of 80-90 degC (176-194 degF) is recommended, but temperatures of as low as 45 degC (113 degF) and as high as 105 degC (221 degF) can be used where applicable.

Pressures

Injection speed must be optimized. A filling rate which is too high results in anisotropic mechanical properties, while a filling rate which is too low yields parts with poor surface finish. The tool must be vented to avoid burn marks and prevent mold deposits. Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off.

Back pressure can be utilized to provide uniform melt consistency and reduce trapped air and gas. Minimal back pressure should be utilized to prevent glass breakage. recommended.

Fill Rate

Injection speed must be optimized. A filling rate which is too high results in anisotropic mechanical properties, while a filling rate which is too low yields parts with poor surface finish. The tool must be vented to avoid burn marks and prevent mold deposits.

Note

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