Kumho PS MIB-IT

High Impact Polystyrene

Korea Kumho Petrochemical Co., Ltd.

Message:

Features: Demoldability
Applications: Yogurt beverage bottles, Disposable cups

General Information			
UL YellowCard	E65424-247780		
Uses	Cup Bottle		
UL File Number	E654224		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.03	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.60	%	ASTM D955
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	60		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	24.5	MPa	ASTM D638
Tensile Elongation (Yield)	40	%	ASTM D638
Flexural Modulus	1670	MPa	ASTM D790
Flexural Strength (Yield)	34.3	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm)	88	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	74.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525 [1]
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	60.0 - 70.0	°C	
Drying Time	1.0 - 3.0	hr	
Rear Temperature	170 - 190	°C	
Middle Temperature	180 - 200	°C	
Front Temperature	190 - 210	°C	
Nozzle Temperature	190 - 220	°C	
Mold Temperature	40.0 - 60.0	°C	

Injection instructions
Injection Hopper Throat: 45 °C

NOTE	
1.	速率 A (50°C/h), 压 力1 (10N)

Recommended distributors for this material

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