

UMG ABS® EX23X

Acrylonitrile Butadiene Styrene

UMG ABS, Ltd.

Message:

UMG ABS® EX23X is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or North America.

Important attributes of UMG ABS® EX23X are:

Flame Rated

RoHS Compliant

General Information			
UL YellowCard	E47016-237396		
RoHS Compliance	RoHS Compliant		
UL File Number	E47016		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.06	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (23°C)	0.50 to 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	104		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2450	MPa	ISO 527-2
Tensile Stress (23°C)	48.0	MPa	ISO 527-2
Flexural Modulus ¹ (23°C)	2700	MPa	ISO 178
Flexural Stress ² (23°C)	76.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m ²	
23°C	25	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	°C	ISO 75-2/Af
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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