

ZYLAR® 765

Methyl Methacrylate Butadiene Styrene
INEOS Styrolution Group GmbH

Message:

Zylar 765 is a MBS grade that provides very high toughness, good clarity and superior processing characteristics for demanding injection molding applications.

General Information			
Features	Ethylene Oxide Sterilizable		
	Good Processability		
	High Clarity		
	Low Density		
	Radiation Sterilizable		
	Ultra High Toughness		
Uses	Appliances		
	Consumer Applications		
	Displays		
	Housings		
	Industrial Applications		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	4.50	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	23.0	MPa	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	72.0	°C	ISO 75-2/B
1.8 MPa, Annealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature	64.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093

Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Constant (100 Hz)	2.50		IEC 60250
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.570		ISO 489
Transmittance (550 nm)	90.0	%	ASTM D1003
Haze	1.5	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	180 to 210	°C	
Middle Temperature	185 to 220	°C	
Front Temperature	190 to 225	°C	
Processing (Melt) Temp	200 to 240	°C	
Mold Temperature	30.0 to 55.0	°C	
Injection Rate	Moderate-Fast		

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