

ZYLAR® 550

Methyl Methacrylate Butadiene Styrene

INEOS Styrolution Group GmbH

Message:

ZYLAR 550 is an impact modified styrene acrylic copolymer that provides practical toughness, good clarity and superior processing characteristics for demanding injection molded applications.

General Information			
UL YellowCard	E108538-101943594		
Additive	Impact Modifier		
Features	Copolymer		
	Ethylene Oxide Sterilizable		
	Good Processability		
	Good Toughness		
	High Clarity		
	Impact Modified		
	Low Density		
	Radiation Sterilizable		
Uses	Appliances		
	Consumer Applications		
	Housings		
	Industrial Applications		
	Medical/Healthcare Applications		
	Toys		
Agency Ratings	USP XXIII, Class VI		
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)			ISO 1133
200°C/5.0 kg	5.00	cm ³ /10min	
220°C/10.0 kg	55.0	cm ³ /10min	
Molding Shrinkage	0.20 to 0.60	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	0.10	%	
Equilibrium, 23°C, 50% RH	0.050	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	60.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	28.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	50	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Notched Izod Impact Strength (23°C)	3.5	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength	80	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	81.0	°C	ISO 75-2/B
1.8 MPa, Annealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	73.0	°C	ISO 306/B50
Maximum Service Temperature	250	°C	
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	
Drying Temperature	65.0	°C	
Drying Time	2.0	hr	
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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