

Zylar 245

Methyl Methacrylate Butadiene Styrene (MBS)

TECHNICAL DATASHEET

DESCRIPTION

The product line Zylar® comprises blends from styrene, butadiene and methylmethacrylate copolymers (MBS). The blends are highly transparent, tough and show a good chemical resistance. Depending on the application, they can be a low density alternative for polycarbonate, PET-G or transparent ABS (MABS). The grades are suitable for medical applications, food contact statements are available upon request. Zylar®245 provides the highest transparency and stiffness.

FEATURES

- High flowability
- Sterilisable(ETO, NO2, Irradiation)
- Toughness
- Low density

APPLICATIONS

- Household applications
- Food contact applications
- Medical devices
- Cosmetic packaging
- Toys, sports & leisure

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	4.5
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	48
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	2
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	15
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	2
Tensile Modulus	ISO 527	MPa	2300
Tensile Stress at Yield, 23 °C	ISO 527	MPa	47
Tensile Strain at Yield, 23 °C	ISO 527	%	2.8
Tensile Strain at Break, 23 °C	ISO 527	%	20
Hardness, Shore D	ISO 868	-	79
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	78
Heat Deflection Temperature A; (unannealed; 1.8 MPa)	ISO 75	°C	72
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	85

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Property, Test Condition	Standard	Unit	Values
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.57
Haze	ASTM D 1003	%	2
Light Transmission at 550 nm	ASTM D 1003	%	90
Other Properties			
Density	ISO 1183	kg/m ³	1050
Water Absorption, Saturated at 23 °C	ISO 62	%	0.1
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.05
Processing			
Melt Temperature Range	ISO 294	°C	200 - 240
Mold Temperature Range	ISO 294	°C	30 - 55
Drying Temperature	-	°C	65
Drying Time	-	h	2