

# Ultrason® E 1510 MR

## Polyether Sulfone

### BASF Corporation

#### Product Description

Unreinforced, low viscosity injection moulding grade with demolding agent, flows very readily. Used for thin walled parts with higher flow length - wall thickness ratio.

#### General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• Mold Release
Features	• Low Viscosity
Uses	• Thin-walled Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PESU

#### Physical

	Nominal Value	Unit	Test Method
Density	1.37	g/cm <sup>3</sup>	ISO 1183
Apparent Density	0.70 to 0.80	g/cm <sup>3</sup>	ISO 60
Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)	110	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.85	%	
Flow	0.80	%	
Water Absorption			ISO 62
Saturation, 23°C	2.2	%	
Equilibrium, 23°C, 50% RH	0.80	%	
Viscosity Number	52.0	cm <sup>3</sup> /g	ISO 307

#### Mechanical

	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	6.7	%	ISO 527-2/50

#### Impact

	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m <sup>2</sup>	
23°C	6.5	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C	7.00	kJ/m <sup>2</sup>	
23°C	6.50	kJ/m <sup>2</sup>	

#### Hardness

	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	154	MPa	ISO 2039-1

#### Thermal

	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	201	°C	
Glass Transition Temperature	225	°C	ISO 11357-2
CLTE - Flow			
23 to 80°C	0.000052	cm/cm/°C	ISO 11359-2
180°C	0.000059	cm/cm/°C	DIN 53752

#### Injection

	Nominal Value	Unit
Drying Temperature	130 to 150	°C
Drying Time	4.0	hr
Processing (Melt) Temp	340 to 390	°C
Mold Temperature	140 to 180	°C

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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Extrusion	Nominal Value	Unit
Melt Temperature	340 to 390	°C

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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