ULTEM™ RESIN 1285

REGION EUROPE

DESCRIPTION

Transparent Polyetherimide blend. ECO Conforming. US FDA and EU Food Contact Compliant in recognized colors.

TYPICAL PROPERTY VALUES

Revision 20260330

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Taber Abrasion, CS-17, 1 kg	36	mg/1000cy	SABIC method
Tensile Stress, yield, 5 mm/min	110	MPa	ISO 527
Tensile Stress, break, 5 mm/min	75	MPa	ISO 527
Tensile Stress, yield, 50 mm/min	115	MPa	ISO 527
Tensile Stress, break, 50 mm/min	75	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6	%	ISO 527
Tensile Strain, break, 5 mm/min	36	%	ISO 527
Tensile Strain, yield, 50 mm/min	6.5	%	ISO 527
Tensile Strain, break, 50 mm/min	13.5	%	ISO 527
Tensile Modulus, 1 mm/min	3300	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	155	MPa	ISO 178
Flexural Modulus, 2 mm/min	3250	MPa	ISO 178
Ball Indentation Hardness, H358/30	160	MPa	ISO 2039-1
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -30°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	4	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	3	kJ/m²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	3	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m²	ISO 179/1eU
Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m²	ISO 179/1eU
THERMAL			
CTE, 23°C to 80°C, flow	5.3E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	5.3E-05	1/°C	ISO 11359-2
Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2
Vicat Softening Temp, Rate B/50	177	°C	ISO 306
Vicat Softening Temp, Rate B/120	180	°C	ISO 306
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	170	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	158	°C	ISO 75/Ae
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow	0.5 – 0.7	%	SABIC method
Density	1.3	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.5	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.17	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Volume Rate			
320°C/5.0 kg	16	cm³/10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	6.6E+16	Ω.cm	IEC 60093
Surface Resistivity, ROA	3.4E+16	Ω	IEC 60093
Dielectric Strength, in oil, 3.2 mm	16	kV/mm	IEC 60243-1
Relative Permittivity, 1 MHz	2.9	-	IEC 60250
Dissipation Factor, 50/60 Hz	0.0026	-	IEC 60250
Dissipation Factor, 1 MHz	0.0103	-	IEC 60250
Comparative Tracking Index	150	V	IEC 60112
Relative Permittivity, 50/60 Hz	2.9	-	IEC 60250
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4 – 8	Hrs	
Melt Temperature	300 – 330	°C	
Mold Temperature	95 – 150	°C	

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