

ULTEM™ RESIN SF2260

REGION ASIA

DESCRIPTION

High flow ULTEM for thin wall application

TYPICAL PROPERTY VALUES

Revision 20170913

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	148	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	9400	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	191	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	7360	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	142	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.4	%	ISO 527
Flexural Modulus, 2 mm/min	7170	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	80	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	201	°C	ASTM D 648
CTE, -40°C to 150°C, flow	1.4E-05	1/°C	ASTM E 831
CTE, -40°C to 150°C, xflow	5.4E-05	1/°C	ASTM E 831
CTE, 23°C to 150°C, flow	1.8E-05	1/°C	ISO 11359-2
CTE, 23°C to 150°C, xflow	6.7E-05	1/°C	ISO 11359-2
PHYSICAL			
Specific Gravity	1.42	-	ASTM D 792
Moisture absorption (23°C/50%)	0.05	%	-
Mold Shrinkage, flow (5)	0.46	%	SABIC method
Mold Shrinkage, xflow (5)	0.54	%	SABIC method
Melt Flow Rate, 337°C/6.6 kgf	30	g/10 min	ASTM D 1238
Density	1.42	g/cm ³	ISO 1183
Water Absorption, 23°C/24hrs	0.14	%	ISO 62-1
Melt Volume Rate, MVR at 345°C/10.0 kg	70	cm ³ /10 min	ISO 1133
FLAME CHARACTERISTICS			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP
INJECTION MOLDING			
Drying Temperature	150	°C	
Drying Time	4 – 6	hrs	
Drying Time (Cumulative)	24	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	350 – 400	°C	
Nozzle Temperature	345 – 400	°C	
Front - Zone 3 Temperature	345 – 400	°C	
Middle - Zone 2 Temperature	340 – 400	°C	
Rear - Zone 1 Temperature	330 – 400	°C	
Mold Temperature	135 – 165	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a “seller”), is made exclusively under seller’s standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer’s particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.