

# ULTEM™ RESIN DU442

REGION ASIA

## DESCRIPTION

High Flow, white colorable , UV Stabilized, impact resistant Polyetherimide blend. ECO Conforming.

## TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 5 mm/min	66	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	10	%	ASTM D638
Tensile Modulus, 5 mm/min	2990	MPa	ASTM D638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	107	MPa	ASTM D790
Flexural Modulus, 2.6 mm/min, 100 mm span	3060	MPa	ASTM D790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	214	J/m	ASTM D256
Izod Impact, Reverse Notched, 3.2 mm	1490	J/m	ASTM D256
<b>THERMAL</b>			
HDT, 1.82 MPa, 6.4 mm, unannealed	130	°C	ASTM D648
<b>PHYSICAL</b>			
Specific Gravity	1.26	-	ASTM D792
Mold Shrinkage, flow, 24 hrs	0.4 – 0.7	%	ASTM D955
Melt Flow Rate, 295°C/6.6 kgf	34	g/10 min	ASTM D1238
<b>INJECTION MOLDING</b>			
Drying Temperature	125	°C	
Drying Time	4 – 6	Hrs	
Drying Time (Cumulative)	12	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	280 – 305	°C	
Nozzle Temperature	280 – 305	°C	
Front - Zone 3 Temperature	280 – 305	°C	
Middle - Zone 2 Temperature	280 – 305	°C	
Rear - Zone 1 Temperature	280 – 305	°C	
Mold Temperature	90 – 110	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	50 – 70	%	
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 NON-INFRINGEMENT 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.