

FLEX NORYL™ RESIN WCP841

REGION ASIA

DESCRIPTION

Flexible Noryl* injection molding grade. Low specific gravity with good non-halogenated flame retardant performance. Developed for evaluation in overmolding applications such as plugs, strain reliefs, and connectors. UL 94 V-0 performance with good processability.

TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 50 mm/min	6	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	150	%	ASTM D 638
Flexural Modulus, 12.5 mm/min, 100 mm span	50	MPa	ASTM D 790
Hardness, Shore A, 30S reading	84	-	ASTM D 2240
Tensile Stress, break, 50 mm/min	7	MPa	ISO 527
Tensile Strain, break, 50 mm/min	175	%	ISO 527
Flexural Modulus, 12.5 mm/min	50	MPa	ISO 178
IMPACT			
Brittleness Temperature	<-40	°C	ASTM D 746
PHYSICAL			
Specific Gravity	1.01	-	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.95	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.75	%	ASTM D 955
Melt Flow Rate, 210°C/5 kgf	24	g/10 min	ASTM D 1238
Melt Flow Rate, 250°C/2.16 kgf	27	g/10 min	ASTM D 1238
ELECTRICAL			
Volume Resistivity	7.1E+15	Ohm-cm	ASTM D 257
Comparative Tracking Index	600	V	IEC 60112
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating	6	mm	UL 94
Glow Wire Flammability Index 750°C, passes at	3	mm	IEC 60695-2-12
Glow Wire Ignitability Temperature, 3.0 mm	750	°C	IEC 60695-2-13
INJECTION MOLDING			
Drying Temperature	60 – 80	°C	
Drying Time	4 – 6	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.01	%	
Melt Temperature	220 – 250	°C	
Nozzle Temperature	220 – 250	°C	
Front - Zone 3 Temperature	220 – 250	°C	
Middle - Zone 2 Temperature	210 – 240	°C	
Rear - Zone 1 Temperature	180 – 220	°C	
Mold Temperature	40 – 60	°C	
Back Pressure	3 – 10	MPa	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Screw Speed	30 – 80	rpm	
Shot to Cylinder Size	30 – 70	%	
Vent Depth	0.03 – 0.05	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.