

LEXAN™ VR2820 resin

Polycarbonate
SABIC Innovative Plastics

Message:

Low flow, UV stabilized polycarbonate resin with mold release. Available in limited transparent tints, limited package types, and must meet minimum order quantity requirements.

General Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Good UV Resistance		
	Low Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2380	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	62.1	MPa	
Break	65.5	MPa	
Tensile Elongation ³			ASTM D638
Yield	7.0	%	
Break	110	%	
Flexural Modulus ⁴ (50.0 mm Span)	2340	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	910	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	124	°C	ASTM D648
CLTE - Flow (-40 to 95°C)	6.8E-5	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	

Rear Temperature	288 to 310	°C
Middle Temperature	299 to 321	°C
Front Temperature	310 to 332	°C
Nozzle Temperature	304 to 327	°C
Processing (Melt) Temp	310 to 332	°C
Mold Temperature	82.2 to 116	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.025 to 0.076	mm

NOTE

- | | |
|----|-------------------|
| 1. | 50 mm/min |
| 2. | Type I, 50 mm/min |
| 3. | Type I, 50 mm/min |
| 4. | 1.3 mm/min |
| 5. | 1.3 mm/min |

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