

CYCOLAC™ GRM2600L resin

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

High Impact , good chemical resistance sheet grade ABS designed for refrigerator liner applications.

General Information			
UL YellowCard	E121562-220708		
Features	Good Chemical Resistance		
	High Impact Resistance		
Uses	Appliances		
	Liners		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	2.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.45 to 0.65	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2410	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	41.4	MPa	
Break	35.9	MPa	
Tensile Elongation ³ (Break)	55	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2310	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	400	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	46.9	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	100	°C	
1.8 MPa, Unannealed, 3.20 mm	85.6	°C	
Vicat Softening Temperature	113	°C	ASTM D1525 ⁶
CLTE - Transverse (-40 to 40°C)	7.2E-5	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	
Drying Temperature	87.8 to 93.3	°C	
Drying Time	2.0 to 4.0	hr	

Drying Time, Maximum	8.0	hr
Suggested Max Moisture	0.010	%
Suggested Shot Size	50 to 70	%
Rear Temperature	193 to 210	°C
Middle Temperature	210 to 227	°C
Front Temperature	232 to 254	°C
Nozzle Temperature	232 to 274	°C
Processing (Melt) Temp	232 to 274	°C
Mold Temperature	48.9 to 82.2	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm
Vent Depth	0.038 to 0.051	mm

NOTE

1. 5.0 mm/min
2. Type I, 5.0 mm/min
3. Type I, 5.0 mm/min
4. 1.3 mm/min
5. 1.3 mm/min
6. Rate B (120°C/h), Loading 2 (50 N)

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