

MAGNUM™ 375 HH

ABS Resin

Trinseo

Message:

High Heat, Low Gloss, Medium Impact ABS resin for injection molding
Applications:
Automotive interior trim applications requiring low volatile organic compounds (VOC).

General Information			
Features	High Heat Resistance		
	Low Gloss		
	Low VOC		
	Medium Impact Resistance		
Uses	Automotive Applications		
	Automotive Interior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792, ISO 1183/B
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.1	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.57	%	
Across Flow	0.56	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2300	MPa	ASTM D638
--	2330	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	49.0	MPa	ASTM D638
Yield	47.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ³	3.1	%	ASTM D638
Yield	2.9	%	ISO 527-2/50
Break ⁴	8.8	%	ASTM D638
Break	3.5	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2410	MPa	ASTM D790
--	2300	MPa	ISO 178
Flexural Strength			

-- ⁶	76.5	MPa	ASTM D790
--	71.7	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	11	kJ/m ²	
23°C	22	kJ/m ²	
Notched Izod Impact			
-30°C	130	J/m	ASTM D256
23°C	220	J/m	ASTM D256
-30°C	10	kJ/m ²	ISO 180/A
23°C	16	kJ/m ²	ISO 180/A
Instrumented Dart Impact			ASTM D3763
-30°C, Peak Energy	23.0	J	
23°C, Peak Energy	30.1	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	99.4	°C	ASTM D648
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	81.7	°C	ASTM D648
1.8 MPa, Unannealed	84.0	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	ISO 306/B50, ASTM D1525 ⁷
CLTE			ASTM E831
Flow : -40 to 100°C	7.7E-5	cm/cm/°C	
Transverse : -40 to 100°C	9.5E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
FMVSS Flammability ⁸	30	mm/min	FMVSS 302
Injection	Nominal Value	Unit	
Drying Temperature	82.0 to 85.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	238	°C	
Middle Temperature	249	°C	
Front Temperature	254	°C	
Nozzle Temperature	249 to 254	°C	
Processing (Melt) Temp	243 to 271	°C	
Mold Temperature	38.0 to 66.0	°C	
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		
5.	Method I (3 point load), 2.0 mm/min		

6.	Method I (3 point load), 2.0 mm/min
7.	Rate A (50°C/h), Loading 2 (50 N)
8.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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