TRINSEO™

MAGNUM™ 348

Overview

MAGNUM™ 348 is a high flow and medium impact ABS Resin that is suited for injection molding applications.

Govt. and Industry Standards:
MAGNUM™ 348 complies with U.S. FDA 21 CFR 181.32(a)(3)(i).

Applications
- Consumer Goods

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.05	g/cm³	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)					ISO 1133
220°C/10.0 kg	22	g/10 min	22	g/10 min	
230°C/3.8 kg	5.5	g/10 min	5.5	g/10 min	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus [1]	290000	psi	2000	MPa	ASTM D638
Tensile Strength [2] (Yield)	5800	psi	40.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	22	%	22	%	ASTM D638
Flexural Modulus [3]	363000	psi	2500	MPa	ASTM D790
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact					ASTM D256
0°F (-18°C)	1.9	ft·lb/in	100	J/m	
73°F (23°C)	3.7	ft·lb/in	200	J/m	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ASTM D648
264 psi (1.8 MPa), Unannealed	171	°F	77.0	°C	

Additional Information

Mass balance versions (bio-based (BIO) or chemically recycled (CR)) of this product are chemically and physically indistinguishable to the standard fossil grade. This technical data sheet applies to all versions. Letters of sameness are available upon request.

Injection	Nominal Value	(English)	Nominal Value	(SI)
Drying Temperature	176 to 194	°F	80 to 90	°C
Drying Time	2.0 to 4.0	hr	2.0 to 4.0	hr

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] 0.039 in/min (1.0 mm/min)

[2] 2.0 in/min (50 mm/min)

[3] 0.051 in/min (1.3 mm/min)

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