Technical Information

TRINSEO™

MAGNUM™ 3513UV
ABS Resin

Overview

MAGNUM™ 3513UV is a grade which combines high impact with good flow. It is suitable for profile extrusion but can also be used in other extrusion and injection moulding processes. MAGNUM™ 3513UV is UV stabilized and can be pre-coloured.

Applications:

- Profile extrusion for building and construction applications
- Sheet extrusion
- General injection moulding

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) (220°C/10.0 kg)	10	g/10 min	10	g/10 min	ISO 1133
Molding Shrinkage	4.0E-3 to 7.0E-3	in/in	0.40 to 0.70	%	ISO 294-4
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus	319000	psi	2200	MPa	ISO 527-1/1
Tensile Stress (Yield)	6530	psi	45.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.6	%	2.6	%	ISO 527-2/50
Flexural Modulus [1]	319000	psi	2200	MPa	ISO 178
Flexural Stress [1]	9430	psi	65.0	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength					ISO 179/1eA
73°F (23°C), Injection Molded	9.5	ft·lb/in²	20	kJ/m²	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ISO 75-2/A
264 psi (1.8 MPa), Annealed	212	°F	100	°C	
Vicat Softening Temperature	212	°F	100	°C	ISO 306/B50
Thermal Conductivity	0.97	Btu·in/hr/ft²/°F	0.14	W/m/K	ISO 8302
Flammability	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Flame Rating [2]					UL 94
0.06 in (1.5 mm)	HB		HB		
0.12 in (3.0 mm)	HB		HB		

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] 0.079 in/min (2.0 mm/min)

[2] This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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