

Technical Data

Product Description				
(DOMAMID 66ST1H)				
Polyamide 66, impact modified, heat stabilized, for injection moulding				
General				
Material Status	• Commercial: Active			
Literature ¹	<ul style="list-style-type: none"> • Brochure - DOMO ENGINEERING PLASTICS: In Chemicals We Trust. (English) • Brochure - PRODUCTS LIST: DOMAMID & ECONAMID (English) • Technical Datasheet (English) 			
Search for UL Yellow Card	<ul style="list-style-type: none"> • DOMO Engineering Plastics • DOMAMID® 			
Availability	• Asia Pacific	• Europe	• North America	
Additive	• Heat Stabilizer	• Impact Modifier		
Features	• Heat Stabilized	• Impact Modified		
Processing Method	• Injection Molding			
Resin ID (ISO 1043)	• PA66-I			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage ³				ISO 2577
Across Flow : 23°C, 72 hr	1.4 to 1.6	--	%	
Flow : 23°C, 72 hr	1.2 to 1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1350	MPa	ISO 527-2/1
Tensile Stress (Yield)	70.0	50.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2/50
Flexural Modulus ⁴	2500	--	MPa	ISO 178
Flexural Stress ⁴	90.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength (23°C)	14	23	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	No Break	No Break		ISO 180/1U
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	115	--		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	235	--	°C	ISO 306/B50
Melting Temperature	262	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	FMVSS 302
Flame Rating (0.8 mm)	HB	--		UL 94
Additional Information	Dry	Conditioned	Unit	Test Method
ISO Shortname	PA66-I,MH,14-030	--		ISO 1874



Injection	Dry Unit
Drying Temperature	75 to 85 °C
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	270 to 290 °C
Mold Temperature	40 to 80 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50% RH

⁴ 2.0 mm/min

