

YUNTIANHUA® M25

Acetal (POM) Copolymer

YunNan YunTianHua Co., Ltd.

Message:

YUNTIANHUA® M25 is a polyoxymethylene (POM) copolymer product. It can be processed by extrusion or injection molding and is available in North America, Europe or Asia Pacific. YUNTIANHUA® The application fields of M25 include thin plates, engineering/industrial accessories and conveyor belts. Features include:
flame retardant/rated flame
chemical resistance
high molecular weight
High stiffness
high hardness

General Information			
UL YellowCard		E242659-298903	
Features	Good dimensional stability		
	Low friction coefficient		
	Low warpage		
	Rigidity, high		
	High molecular weight		
	Copolymer		
	Antibacterial		
	Solvent resistance		
	Impact resistance, high		
	Good electrical performance		
	Good wear resistance		
	Good chemical resistance		
	Fatigue resistance		
	acid resistance		
	Extended tensile rate		
	High hardness		
Uses	Bar		
	Conveyor accessories		
	Sheet		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2550	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	2350	MPa	ISO 178
Flexural Stress	81.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	160 - 180	°C	
Middle Temperature	170 - 200	°C	
Front Temperature	190 - 210	°C	
Nozzle Temperature	180 - 210	°C	
Processing (Melt) Temp	180 - 210	°C	
Mold Temperature	60.0 - 90.0	°C	
Injection Pressure	50.0 - 100	MPa	
Holding Pressure	30.0 - 80.0	MPa	
Back Pressure	0.00 - 0.500	MPa	
Screw Speed	50 - 120	rpm	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 190	°C	
Extrusion instructions			

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

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