恒力石化
HENGLI PETROCHEMICAL

技术数据表
Production Data Sheet

产品名称 Name Product	
共聚甲醛树脂 **Copolymer Polyoxymethylene Resin**	
规格型号 Description of Goods	产品等级 Product Grade
HLMC90 **HLMC90**	**A 级** **Grade A**

产品描述 Product Description

聚甲醛(POM)，又名缩醛树脂、聚氧化亚甲基，聚缩醛，是热塑性结晶性高分 子聚合物，被誉为“超钢”或者“赛钢”。具有较高的力学性能，如强度、模 量、耐磨性、韧性、耐疲劳性和抗蠕变性，还具有优良的电绝缘性、耐溶剂性 和可加工性，是五大通用工程塑料之一。

Polyoxymethylene (POM), also known as acetal resin, polyoxymethylene resin, and polyacetal, is a thermoplastic crystalline polymer, reputed as “super steel” or “better steel”. As one of the five general engineering plastics, POM has high mechanical properties, such as strength, modulus, abrasion resistance, toughness, fatigue resistance, and creep resistance, as well as excellent electrical insulating property, solvent resistance property, and processability.

典型应用 Typical Application

· 汽车泵、汽化器部件、输油管、动力阀
Automotive pumps, vaporizer components, fuel pipes, power valves.

· 齿轮、驱动轴、阀门、阀杆螺母、轴承、凸轮、 叶轮
Gears, drive shafts, valves, valve stem nuts, bearings, camshafts, impellers.

· 插头、开关、按扭、继电器、洗衣机滑轮、盒式 磁带的轴和轮壳
Plug, switch, button, relay, washing machine pulley, cassette tape shaft and wheel housing.

· 架子的支撑架、罩体、摩擦垫板以及钟表、照 相机其他精密仪器的零件
The supporting frame, cover, friction pad of the frame, as well as the parts of clocks, cameras, and other precision instruments.

产品特性 Product Characteristics

· 良好的加工能力
Good processing ability

· 优异的机械性能
Excellent mechanical performance

· 优良的耐疲劳性和耐蠕变性
Excellent fatigue resistance and creep resistance

· 良好的电性能
Good electrical performance

国际标准 International Compliance

- **FDA**
- **ROHS**
- **REACH**
- **SVHC**

Please scan the QR code for the product photos

物理特性 Physical Properties

项目 Analyte	单位 Unit	典型值 Typical Vaule	方法 Test Method
黑粒和异色粒 Black & Color Granule	个/kg	≤0	Q/HLSH 103-2023
大色斑粒 Large Color Spot Granule	个/kg	≤1	Q/HLSH 103-2023
小色斑粒 Small Color Spot Granule	个/kg	≤6	Q/HLSH 103-2023
大粒 Large Granule	g/kg	≤1.0	SH/T 1541.1-2019
小粒 Small Granule	g/kg	≤1.0	SH/T 1541.1-2019
MFR (190℃, 2.16kg)	g/10min	8.0~10.0	GB/T 3682.1-2018
熔融温度 Melting Temperature	℃	≥160	GB/T 19466.3-2001
密度 (23℃) Density (23℃)	g/cm^3	1.38~1.43	GB/T 1033.1-2008
拉伸屈服应力 Tensile Stress At Yield	MPa	≥60	GB/T 1040.2-2022
拉伸断裂标称应变 Nominal Tensile Strain At Break	%	≥20	GB/T 1040.2-2022
拉伸弹性模量 Modulus of Elasticity For Tension	MPa	≥2500	GB/T 1040.2-2022
弯曲强度 Flexural Strength	MPa	≥80	GB/T 9341-2008
简支梁缺口冲击强度 Charpy Notched Impact Strength	kJ/m2	≥6.0	GB/T 1043.1-2008
负荷变形温度 (Tf1.8) Temperature Of Deflection Under Load	℃	≥85	GB/T 1634.2-2019
甲醛释放量 Formaldehyde Emission Content	Mg/kg	≤200	Q/HLSH 103-2023
b*	-	≤1.0	Q/HLSH 103-2023

注: Note:

- 以上指标都是在恒力的条件和方法下从特定样品中检测取得的，不应用于代表全部产品的质量。

- There results above are under HLPC'S condition and method from specific sample, should be not used for representative to lot product qualities.

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