



POM 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	POM, AR10, PTFE15	POM, AR15, PTFE15	POM, MoS ₂ 5	POM, Si2	POM, PTFE5	POM, PTFE10	POM, PTFE20	POM, PTFE18, Si2	
一般性质	比重 Specific Gravity	D792	-	1.49	1.46	1.46	1.4	1.42	1.45	1.51	1.48	
	成型收缩率 Mold Shrinkage	D955	%	6.35mm截面	-	2.4	-	-	-	3	-	
				3.18mm截面	1~2	1.6	1.9	2.2	2	2	1.9	2.2
	吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	-	0.4	-	-	-	-	0.15	-	
机械性质	冲击强度 Impact Strength	D256	J/m	3.18mm截面(缺口) Notched Izod	75	75	64	85	69	53	53	
				3.18mm截面(无缺口) Unnotched Izod	534	481	1068	No Break	747	747	427	534
	伸张强度 Tensile Strength	D638	MPa	59	62	61	54	55	52	41	38	
	延伸率 Tensile Elongation	D638	%	5~8	5~7	7~12	>10	>10	>10	>10	>10	
	伸张模数 Tensile Modulus	D638	MPa	3448	3445	2896	2758	2620	2413	2205	2068	
	弹性强度 Flexural Strength	D790	MPa	79	76	90	72	76	76	62	59	
	弹性模数 Flexural Modulus	D790	MPa	3103	3101	2620	2620	2344	2206	2067	1931	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	110 R	-		
热性质	热变形温度 DTUL	D648	oC	at 264 psi (1.82 MPa)	135	138	121	110	110	110	102	104
				at 66 psi (0.455 MPa)	-	160	-	-	-	-	149	-
	连续使用温度 Continuous Use Temp.	UL-746B	oC	-	-	-	-	-	-	-	-	
	线性热膨胀系数 Coefficient of Linear Thermal Expansion	D 696	10 ⁻⁵ /oC	-	-	-	-	-	-	-	-	
防火等级 Flammability thickness	-	-	-	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	1e14~1e16	10e14	-	-	-	-	10e14	-	
	表面电阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	-	-	
	静电消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	-	-	-	-	-	-	-	-	

*Tested by factory.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.