vinmar polymers america

VINPOL™ AL0806UY

Acetal (POM) + Black/UV Masterbatch Dry Blend

Melt Volume Rate: 8

Dry Blend with Black & UV Masterbatch

VINPOL AL0806UY is a dry blend of medium viscosity Acetal (POM) and a black masterbatch containing UV additives. This grade is designed for injection molding and extrusion of thinwalled tubing and thin gauge film.

*Resin Property	Typical Value	Units	Test Method
Melt Volume Rate, 190°C, 2.16 kg	8	cm^3/10 min	ISO 1133
Density	1.41	g/cm^3	ISO 1183
Mold Shrinkage, Parallel Flow/Transverse Normal	2.0/1.9	%	ISO 294-4, 2577
Water Absorption (23°C, saturated)	0.75	%	Similar to ISO 62
Humidity Absorption, 23°C, 50% RH	0.2	%	ISO 62
Tensile Modulus	2,760	MPa	ISO 527-1, -2
Tensile Stress at Yield, 50mm/min	65	MPa	ISO 527-1, -2
Tensile Strain at Yield, 50mm/min	10	%	ISO 527-1, -2
Flexural Modulus, 23°C	2,550	MPa	ISO 178
Flexural Stress @ 3.5% Strain	73	MPa	ISO 178
Charpy Notched Impact Strength, 23°C	6	kj/m^2	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	6	kj/m^2	ISO 179/1eA
Notched Izod Impact, 23°C	5.7	kj/m^2	ISO 180/1A
Notched Izod Impact, -30°C	5.5	kj/m^2	ISO 180/1A
Compressive Stress @ 1% Strain	26	MPa	ISO 604
Compressive Stress @ 6% Strain	88	MPa	ISO 604
Melting Temperature, 10°C/min	166	°C	ISO 11357-1/-3
DTUL, 0.45 MPa	158	°C	ISO 75-1,-2
DTUL, 1.8 MPa	101	°C	ISO 75-1,-2
CLTE, Parallel	1.2	E-4/°C	ISO 11359
CLTE, Normal	1.2	E-4/°C	ISO 11359
Specific Heat Capacity of Melt	2,210	J/(kgK)	Supplier Method
Thermal Conductivity of Melt	0.155	W/m/K	Supplier Method
Melt Density	1,200	Kg/m^3	Supplier Method
Eff. Thermal Diffusivity	4.85E-8	m^2/s	Supplier Method
Ejection Temperature	140	°C	Supplier Method
Volume Resistivity, 23°C	8E12	Ohm*m	IEC 62631-3-1
Surface Resistivity, 23°C	3E16	Ohm	IEC 62631-3-2

**Properties are reported for the base, natural POM resin*

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