

POM copolymer

Easy flowing Injection molding type for precision molded parts and thin-walled molded parts with high rigidity, hardness and toughness; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. With a high amount of carbon black . Ranges of applications: automotive engineering, especially out door applications

Rheological properties

Melt volume-flow rate12Temperature190Load2.16Moulding shrinkage, parallel2.0Moulding shrinkage, normal1.8	kg % ISO 294-4, 2577
Typical mechanical properties	
Yield strain, 50mm/min9Nominal strain at break25Flexural Modulus2800Tensile creep modulus, 1h2500Tensile creep modulus, 1000h1300Charpy impact strength, 23°C200Charpy impact strength, -30°C6.5Charpy notched impact strength, -30°C6	MPa ISO 527-1/-2 % ISO 527-1/-2 % ISO 527-1/-2 MPa ISO 178 MPa ISO 899-1
Thermal properties	
Melting temperature, 10 °C/min166Temp. of deflection under load, 1.8 MPa106Vicat softening temperature, 50 °C/h, 50N151Coeff. of linear therm. expansion, parallel110Thermal conductivity of melt0.155	°C ISO 75-1/-2
Dissipation factor, 1MHz50Volume resistivity1E12Surface resistivity1E14	IEC 62631-2-1IEC 62631-2-1E-4IEC 62631-2-1E-4IEC 62631-2-1Ohm.mIEC 62631-3-1OhmIEC 62631-3-2kV/mmIEC 60243-1



Comparative tracking index	PLC 0	PLC	UL 746A
Other properties			
Humidity absorption, 2mm Water absorption, 2mm Density Density of melt			Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Internal
Injection			
Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Screw tangential speed Max. mould temperature Back pressure Injection speed Ejection temperature	slow-medium	h % m/s °C MPa	Internal
Ejection temperature	140		internal

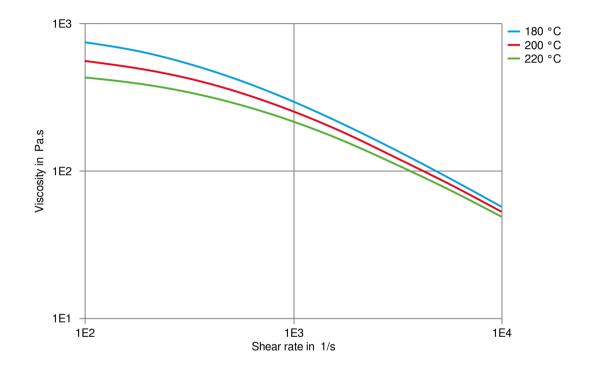
Characteristics

Additives

Release agent

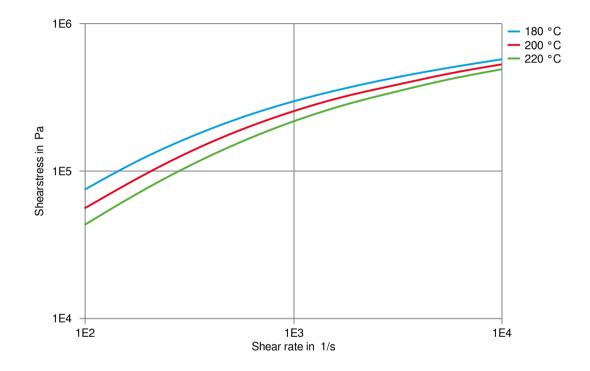


Viscosity-shear rate



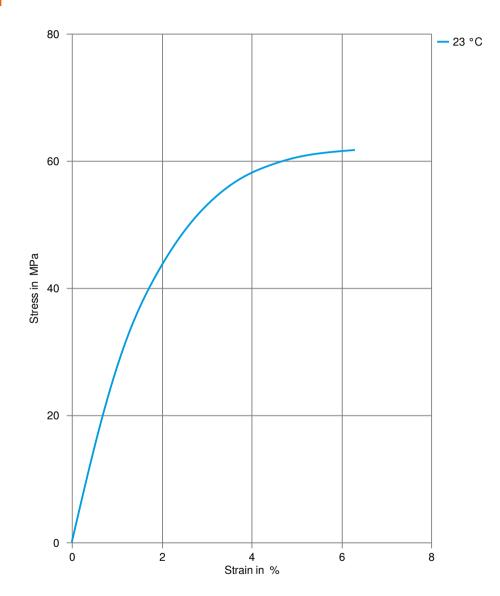


Shearstress-shear rate



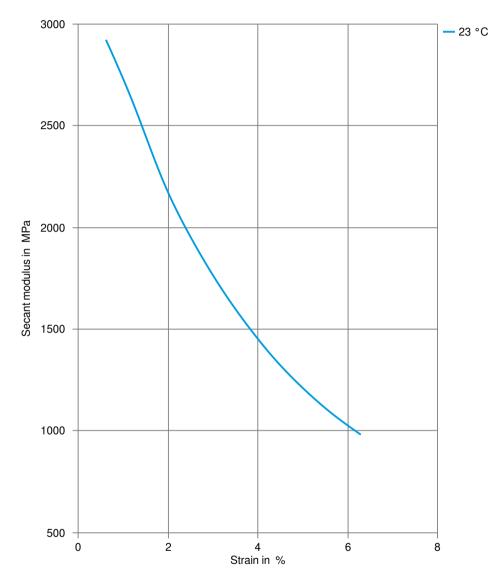


Stress-strain





Secant modulus-strain





Processing Texts				
Pre-drying	Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.			
Longer pre-drying times/storage	The product can then be stored in standard conditions until processed.			
Other Approvals				
Other Approvals	OEM	Specification		
	Bosch	N28 BN22-O027		

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