



CELCON® TX-11H

CELCON®

A friction and wear-resistance (medium-high viscosity) grade for general injection molding. Suitable for uses requiring reduced wear noise and a good friction and wear resistance without sacrificing mechanical properties.

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Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt mass-flow rate Melt mass-flow rate, Temperature Melt mass-flow rate, Load Moulding shrinkage, parallel	5 190 2.16 2.0	kg	ISO 1133 ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at yield, 50mm/min Nominal strain at break Flexural modulus Flexural strength Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C Poisson's ratio	10 40 2550 86 9.5	MPa % %	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa	170 97	°C °C	ISO 11357-1/-3 ISO 75-1/-2
Electrical properties			
Volume resistivity Surface resistivity	1E12 1E16	Ohm.m Ohm	IEC 62631-3-1 IEC 62631-3-2
Physical/Other properties			
Humidity absorption, 2mm Density	0.2 1400	% kg/m³	Sim. to ISO 62 ISO 1183
Injection			
Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum	no 100 3 - 4 ≤0.2 195 180 210 ≤0.3 70	h % °C °C °C	

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Min. mould temperature 60 °C
Max. mould temperature 80 °C
Hold pressure range 60 - 120 MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics Low wear / Low friction

Automotive

OEM STANDARD ADDITIONAL INFORMATION

General Motors GMW22P-POM-C2 Natural General Motors GMW22P-POM-C2 Black

Hyundai MS237-09 Type E-1 Pyeongtaek,Korea

Renault Ulsan, Korea, No Spec, Special Part Approval,

See Your CE Account Manager.

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