

Technical Data

Product Description

- A medium-viscosity grade for general injection molding
- A general grade for injection molding applications

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
UL Yellow Card ²	• E120354-220441		
Search for UL Yellow Card	• Korea Engineering Plastics Co., Ltd • Kepital®		
Availability	• Asia Pacific	• Europe	• North America
Features	• Copolymer	• Medium-high Viscosity	
Uses	• General Purpose		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• BROSE BN620028-101 • CHRYSLER MS-DB-100 CPN1532 Color: Natural • DELPHI ASL006696 • FORD WSK-M4D635-A2	• GM GMW22P-POM-C2 • GM QK 005621 Color: Natural • IMDS ID 4528572 • IMDS ID 4528572 Color: Natural	• MARWAL NW-94-10-020 • VALEO NVB 10.021-F
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• POM		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.41 g/cm ³	1.41 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0 g/10 min	9.0 g/10 min	ISO 1133
Molding Shrinkage - Flow (0.118 in (3.00 mm))	2.0 %	2.0 %	Internal Method
Water Absorption			ISO 62
Equilibrium, 73°F (23°C), 50% RH	0.20 %	0.20 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	399000 psi	2750 MPa	ISO 527-2
Tensile Stress	9430 psi	65.0 MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	10 %	10 %	
Break	35 %	35 %	
Flexural Modulus	370000 psi	2550 MPa	ISO 178
Flexural Stress	12600 psi	87.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.6 ft·lb/in ²	5.5 kJ/m ²	
73°F (23°C)	3.1 ft·lb/in ²	6.5 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	212 °F	100 °C	
Melting Temperature ⁴	329 °F	165 °C	ISO 11357-3
CLTE - Flow	6.7E-5 in/in/°F	1.2E-4 cm/cm/°C	ISO 11359-2
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+16 ohms	1.0E+16 ohms	IEC 60093
Volume Resistivity	1.0E+14 ohms·cm	1.0E+14 ohms·cm	IEC 60093
Electric Strength	480 V/mil	19 kV/mm	IEC 60243-1
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Hopper Temperature	140 to 176 °F	60 to 80 °C
Rear Temperature	338 to 356 °F	170 to 180 °C
Middle Temperature	356 to 374 °F	180 to 190 °C
Front Temperature	374 to 392 °F	190 to 200 °C
Nozzle Temperature	356 to 410 °F	180 to 210 °C
Mold Temperature	140 to 176 °F	60 to 80 °C
Back Pressure	< 290 psi	< 2.00 MPa

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 10°C/min



Where to Buy

Supplier**Korea Engineering Plastics Co., Ltd**

Seoul, South Korea

Telephone: +82-2-707-6840**Web:** <http://www.kepital.com/>

Distributor**ALBIS Plastic***ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.***Telephone:** +49-40-78105-0**Web:** <http://www.albis.com/>**Availability:** Algeria, Belgium, France, Luxembourg, Morocco, Netherlands, Portugal, Spain, Tunisia**AMP TUNISIA****Telephone:** +216-52-27-21-73**Web:** <http://www.amp.fr/>**Availability:** Tunisia**Biesterfeld Plastic GmbH***Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.***Telephone:** +49-40-32008-0**Web:** <http://www.biesterfeld-plastic.com/>**Availability:** United Kingdom**Calsak Polymers****Telephone:** 800-743-2595**Web:** <http://www.calsakpolymers.com/>**Availability:** North America**Chase Plastic Services, Inc.***Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>***Telephone:** 800-232-4273**Web:** <http://www.chaseplastics.com/>**Availability:** North America**GAZECHIM PLASTIQUES***GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.***Telephone:** +33-4-67-49-55-37**Web:** <http://www.gazechim.com/>**Availability:** United Kingdom**POLYMIX****Telephone:** +33-3-8920-1380**Web:** <http://www.polymix.eu/>**Availability:** Belgium, France, Luxembourg, Netherlands, Tunisia**Telko Oy***Telko Oy is a Pan European distribution company. Contact Telko Oy for availability of individual products by country.***Telephone:** +358-9-5211**Web:** <http://www.telko.com/>**Availability:** Denmark, Norway, Sweden