

## Bohler-Uddeholm BÖHLER M261 Extra Plastic Lens Mold Steel

Category : Metal , Ferrous Metal , Tool Steel , Mold Steel

### Material Notes:

VACUUM ARC REMELTED HARDENED AND TEMPERED PLASTIC LENS MOLD STEELBOHLER M261 follow current trends in tool and die-making:Excellent machinability coupled with higher hardnessGood dimensional stabilityExcellent nitriding propertiesAnd in the processing of plastics by offering:High compressive strengthHigh wear resistanceApplications: High-precision plastic injection molds eg. for the product of camera parts, electronic parts and household itemsCompression molds for all types, eg for plastic containersmolds for elastomersMolds for the production of sealing rings(O-ring seal)Hot running systems

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bohler-Uddeholm-BHLER-M261-Extra-Plastic-Lens-Mold-Steel.php](http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-M261-Extra-Plastic-Lens-Mold-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.82 g/cc	0.283 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	30	30	Solution Annealed
	38 - 42	38 - 42	Stock Standard
	<= 44	<= 44	After Aging
Modulus of Elasticity	210 GPa	30500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 µm/m-°C	6.28 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	12.2 µm/m-°C	6.78 µin/in-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	12.8 µm/m-°C	7.11 µin/in-°F	
	@Temperature 300 °C	@Temperature 572 °F	
	13.2 µm/m-°C	7.33 µin/in-°F	
	@Temperature 400 °C	@Temperature 752 °F	
	13.5 µm/m-°C	7.50 µin/in-°F	
	@Temperature 500 °C	@Temperature 932 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	
Thermal Conductivity	25.0 W/m-K	174 BTU-in/hr-ft <sup>2</sup> -°F	

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
	26.4 W/m-K	183 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	29.5 W/m-K	205 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	31.5 W/m-K	219 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 300 °C	@Temperature 572 °F	
	32.3 W/m-K	224 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 400 °C	@Temperature 752 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.2 %	1.2 %	
Carbon, C	0.13 %	0.13 %	
Chromium, Cr	0.35 %	0.35 %	
Copper, Cu	1.2 %	1.2 %	
Iron, Fe	91.32 %	91.32 %	As Balance
Manganese, Mn	2.0 %	2.0 %	
Nickel, Ni	3.5 %	3.5 %	
Silicon, Si	0.30 %	0.30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000370 ohm-cm	0.0000370 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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