Solution**Partner**



ER400-C Injection and Extrusion molding

Description

- Medium Heat, High Impact

Applications

- Automotives Interior & Exterior Housing, Sheet Extrusion

Properties	Method	Unit	ER400-C
Physical		1	
Specific Gravity , 23℃	ASTM D792		1.04
Mold Shrinkage , 23℃, 3.2mm , 23℃	ASTM D792	%	0.4 ~ 0.8
Melt Flow Rate , 220°C, 10kg	ASTM D1238	g/10min	7
Mechanical			
Tensile Strength at Yield , 23℃, 50mm/min, 3.2mm	ASTM D638	MPa	51
Tensile Elongation at Break , 23°C, 50mm/min, 3.2mm	ASTM D638	%, (Min)	10
Tensile Modulus , 23°C, 50mm/min, 3.2mm	ASTM D638	MPa	2400
Flexural Strength , 23°C, 15mm/min, 3.2mm	ASTM D790	MPa	82
Flexural Modulus , 23°C, 15mm/min, 3.2mm	ASTM D790	MPa	2600
Izod Impact Strength , Notched, 3.2mm, 23°C	ASTM D256	J/m	310
Izod Impact Strength , Notched, 3.2mm, -30°C	ASTM D256	J/m	100
Izod Impact Strength , Notched, 6.4mm, 23°C	ASTM D256	J/m	220
Izod Impact Strength , Notched, 6.4mm, -30°C	ASTM D256	J/m	90
Rockwell Hardness , R-Scale	ASTM D785		109
Thermal			
HDT , Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	C	92
VICAT , 50N, 50°C/h	ASTM D1525	C	101
RTI Electrical	UL 746B	Ĉ	60
RTI Mechanical with Impact	UL 746B	C	60
RTI Mechanical without Impact	UL 746B	C	60
Flammability, 1.5mm	UL 94		HB
Flammability, 3.0mm	UL 94		HB

Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors.

Values given should not be interpreted as specification and not be used for designing part or tool.

All properties, except melt flow rate are measured by injection molded specimens after 48 hours storage at 23°C, 50% relative humidity.

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Processing Guide (Injection Molding)			
Processing Parameters	Unit	Value	
Drying Temperature	C	80 ~ 90	
Drying Time	hrs	3 ~ 4	
Moisture Content	%	~ 0.07	
Melt Temperature	C	230 ~ 260	
Nozzle Temperature	C	230 ~ 240	
Mold Temperature	C	40 ~ 60	
Back Pressure, Hydraulic Type	kg/cm²	10 ~ 30	

Note

Back Pressure & Measuring Speed are only mentioned as general guidelines. These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.



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