Durolon® VRY2000

Polycarbonate

Unigel Plásticos

Message:

Injection molding polycarbonate.
Medium flow rate product with enhanced mold release performance.
For applications that requires enhanced UV resistance. Flame resistant (UL 94 V-0).

General Information			
Additive	demoulding UV stabilizer		
Features	Good UV resistance Definition, high Good demoulding performance Medium viscosity Flame retardancy		
UL File Number	E102385		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	17	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.23	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
Class m	75		ASTM D785
Class r	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2300	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	63.0	MPa	ASTM D638, ISO 527-2
Fracture	68.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	100	%	ASTM D638, ISO 527-2
Flexural Modulus	2350	MPa	ASTM D790, ISO 178
Flexural Strength	93.0	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	780	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	29	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	2.91		ASTM D150
1 MHz	2.85		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	6.6E-4		ASTM D150
1 MHz	9.2E-3		ASTM D150
Arc Resistance	110	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm)	V-0		UL 94
Glow Wire Ignition Temperature (3.20 mm)	960	°C	IEC 60695-2-13
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.586		ASTM D542, ISO 489
Transmittance	89.0	%	ASTM D1003
Additional Information			
Volume Resistivity, ASTM D257: >1E16 ohm-cmArc Resistance, ASTM D495: 100 to 120 sec			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Rear Temperature	260	°C	
Middle Temperature	270	°C	
Front Temperature	280	°C	
Nozzle Temperature	270	°C	
Processing (Melt) Temp	240 - 300	°C	
Mold Temperature	80.0 - 100	°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT