Diamond ABS 3501 8842 ESCR UVRED

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

Product Description

Diamond ABS 3501 8842 ESCR UVRED is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications. Features include: High Impact Resistance.

General

Features	• High Impact Resistance
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) [2]			ASTM D1238
200°C/5.0 kg	2.0	g/10 min	
230°C/3.8 kg	5.0	g/10 min	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield)	6500	psi	ASTM D638
Flexural Modulus - Tangent [4]	328000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	5.6	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	106		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in	171	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Annealed, 0.125 in	201	°F	
Vicat Softening Temperature	219	°F	ASTM D1525 [5]
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	374 to 482	°F
Middle Temperature	374 to 482	°F
Front Temperature	374 to 482	°F
Mold Temperature	104 to 176	°F
Injection Rate	Moderate-Fast	