

# Hifax CA 1133 A

Thermoplastic Polyolefin Elastomer  
LyondellBasell Industries

Message:

Hifax CA 1133 A, is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary Catalloy process technology. It is used for injection molding. Hifax CA1133 A is in particular suitable for high impact strength applications, even at low temperature. The product is characterised both by medium rigidity and a very good processability as well as and excellent paintability. The grade is available in natural pellet form.

| General Information                      |                                   |                   |             |
|--|-----------------------------------|-------------------|-------------|
| Features                                 | Good Processability               |                   |             |
|  | High Impact Resistance            |                   |             |
|  | Low Temperature Impact Resistance |                   |             |
|  | Medium Rigidity                   |                   |             |
|  | Paintable                         |                   |             |
| Uses                                     | Compounding                       |                   |             |
|  | Outdoor Applications              |                   |             |
|  | Plastics Modification             |                   |             |
| Appearance                               | Natural Color                     |                   |             |
| Forms                                    | Pellets                           |                   |             |
| Processing Method                        | Compounding                       |                   |             |
|  | Extrusion                         |                   |             |
|  | Injection Molding                 |                   |             |
| Physical                                 | Nominal Value                     | Unit              | Test Method |
| Density                                  | 0.890                             | g/cm <sup>3</sup> | ISO 1183/A  |
| Melt Mass-Flow Rate (MFR) (230°C/5.0 kg) | 16                                | g/10 min          | ISO 1133    |
| Hardness                                 | Nominal Value                     | Unit              | Test Method |
| Shore Hardness (Shore D)                 | 54                                |                   | ISO 868     |
| Mechanical                               | Nominal Value                     | Unit              | Test Method |
| Tensile Stress (Yield)                   | 17.0                              | MPa               | ISO 527-2   |
| Tensile Strain (Break)                   | > 200                             | %                 | ISO 527-2   |
| Flexural Modulus                         | 850                               | MPa               | ISO 178     |
| Impact                                   | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact Strength             |                                   |                   | ISO 180/1A  |
| -40°C                                    | 7.0                               | kJ/m <sup>2</sup> |             |
| -20°C                                    | 9.0                               | kJ/m <sup>2</sup> |             |
| 23°C                                     | No Break                          |                   |             |
| Thermal                                  | Nominal Value                     | Unit              | Test Method |


|  |      |    |             |
|--|------|----|-------------|
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 60.0 | °C | ISO 75-2/B  |
| Vicat Softening Temperature                        | 122  | °C | ISO 306/A50 |

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