

INEOS STYROLUTION

TERLURAN® ECO GP22 MR50 BLACK PRODUCT GUIDE



INEOS
STYROLUTION



Driving Success. **Together.**

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Terluran® ECO GP22 MR50 black is a post-consumer mechanically recycled grade of ABS that contains at least 50% PCR content in a standard black color. It offers easy flow, high impact, and high HDT with a high quality, high gloss surface appearance. Terluran® ECO GP22 MR50 has similar mechanical properties as virgin Terluran® GP22 which means you don't have to downcycle. It also offers a lower carbon footprint than virgin Terluran® GP22, and in most cases is a drop-in replacement. It molds just like the virgin Terluran® GP22 and generally requires no changes to processing parameters. Terluran® ECO GP22 MR50 is only available in black or dark grey colors and has multiple regulatory approvals such as UL, RoHS, REACH, Prop 65, E71.3 and SVHC but it is not intended for medical or food contact applications. Typical applications include household and electrical appliances, appliance housings, home and office accessories, and other common injection molded parts requiring good impact and a high gloss surface appearance.

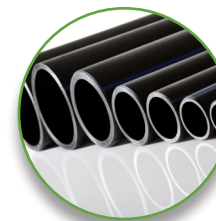
KEY APPLICATIONS



HOUSEHOLD APPLICATIONS



HOUSINGS FOR ELECTRONIC DEVICES



SANITARY APPLICATIONS

KEY PROPERTIES



IMPACT STRENGTH



FLOWABILITY



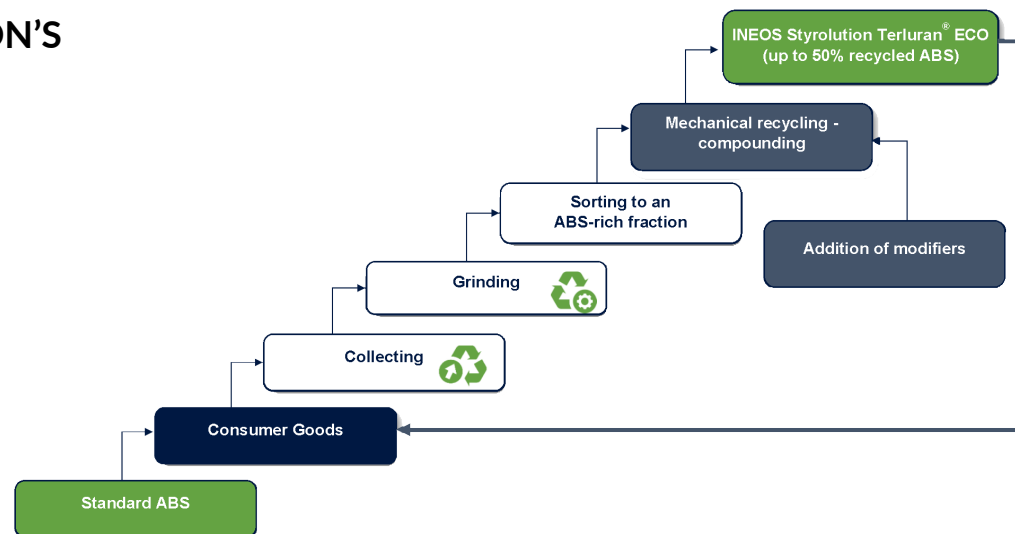
HIGH GLOSS



DIMENSIONAL STABILITY

TERLURAN® ECO IS ONE PILLAR OF INEOS STYROLUTION'S CONTRIBUTION TO SUSTAINABILITY AND A TRULY CIRCULAR ECONOMY

Terluran® ECO based mechanical recycling uses cleaned waste from post-consumer recycled material from which contaminants are removed. The material is reduced in size (shredded), washed, sorted, re-compounded and pelletized.



PROPERTY	TEST METHOD	UNITS	TERLURAN ECO GP22 MR50 BLACK	TERLURAN GP22 BLACK
Melt Volume Rate	ISO 1133	cm ³ /10 min	22	19
Tensile Strength at Yield	ISO 527	MPa	35	45
Tensile Modulus	ISO 527	MPa	2,000	2,300
Notched Charpy Impact, 23°C	ISO 179/1eA	kJ/m ²	22	22
Notched Charpy Impact, -30°C	ISO 179/1eA	kJ/m ²	7	8
Vicat Softening Temperature	ISO 306	°C	90	96

PROCESSING CONDITIONS	
Drying Temperature / Time	80°C for 2 to 4 hours
Melt Temperature Range	220 to 260°C
Mold Temperature Range	30 to 80°C